## FOR THE CASE OF Board of Boiler Rules Meeting

TRANSCRIPT OF

Quarterly Meeting

December 13, 2017

## Stone & George

COURT REPORTING

2020 Fieldstone Pkwy Suite 900 - PMB 234

Franklin, TN 37069

(615) 268-1244

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For questions, call (615) 268-1244 or send an email to <a href="mailto:nangeorge@stoneandgeorge.com">nangeorge@stoneandgeorge.com</a>

1.	STATE OF TENNESSEE	1.	APPEARANCES	
	STATE OF TENNESSEE DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT	2.		
<ul><li>2.</li><li>3.</li></ul>	BOILER UNIT DIVISION	3. 4.	Brian Morelock, Chairman Michael Jay Pischke, Board Member, Boiler Manufacturer Representative	
4.		5.	Dr. S. Keith Hargrove, Board Member, Mechanical	
5.		6. 7.	Engineer Representative David Baughman, Board Member, Owner/User	
6.		1	Representative	
7.	TD A MCCDIDT OF DEOCEEDINGS	8.	Terry Fox, Board Member, Boiler Maker	
8. 9.	TRANSCRIPT OF PROCEEDINGS OF	9. 10.	Representative  Harold Bowers, Board Member, Insurance	
10.	BOARD OF BOILER RULES	1	Representative	
11.	December 13, 2017	11.	Sam Chapman, Chief Boiler Inspector	
12.	BEFORE: Brian Morelock, Chairman	12.	Eugene Robinson, Assistant Chief Boiler Inspector	
13.		13.	Kim Jefferson, Esq., Assistant Administrator	
14.		14.		
15.		15.	Dan Bailey, Esq., Legal Counsel	
16. 17.		16.	Deborah Rhone, Department of Labor & Workforce Development	
18.		17.	Heather Brown, Department of Labor & Workforce Development	
19.		18.		
20.		19.	Jeremy Gross, Valero Memphis Refinery	
21.		20.	Richard Eng, Wacker Chemical	
22.		21.	James Neville, Neville Engineering	
23.	DOMINIQUE A. DUBOIS, LCR# 686	1	Chris Hays, BASF	
23.	STONE & GEORGE COURT REPORTING	22.	Brittany Davis, BASF	
24.	2020 Fieldstone Parkway	23.	Carlos Santos, Foxboro Schneider Electric	
25	Suite 900 - PMB 234	24.	Larry Butler, West Tennessee Healthcare	
25.	Franklin, Tennessee 37069 (615) 221-1089	25.	Mark Jones, West Tennessee Healthcare	
1	Page 2		Chin Falsaidan Days Chamical	Page 4
1.	The above-styled cause came on for	1.	Chip Eskridge, Dow Chemical	
2. 3.	hearing on this the 13th day of December, 2017, before the Board of Boiler Rules of Tennessee	2.	Wes Byrd, Dow Chemical	
3. 4.	Department of Labor and Workforce Development, at	3.	Brian Pauley, Dow Chemical	
<del>4</del> . 5.	220 French Landing Drive, TOSHA Hearing Room, 1st	4.	Laval Choiniere, Kayser-Roth Corporation.	
<i>5</i> .	Floor, Nashville, Tennessee, when and where the	5.	Kevin Ormanoski, Nucor Steel Memphis	
7.	following proceedings were had, to wit:	6.	Michael Haney, LaFollette Medical Center	
8.	following proceedings were flau, to wit.	7.	Jason Anderson, LaFollette Medical Center	
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10. 19.		18.		
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22.		21.		
23.	** Reporter's Note: All names are spelled	22.		
	phonetically unless otherwise provided to the	23.		
24.	Reporter by the parties.	24.		
25.	- •	25.		
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	Page 5		Page
. !	AGENDA	1.	PROCEEDINGS
	I. Call Meeting to Order  II. Introductions and Announcements	2.	CHAIRMAN MORELOCK: Good morning,
	III. Adoption of the Agenda	3.	everybody. I'd like to welcome you to the December
	IV. Approval of the September 20, 2017  Meeting Minutes	4.	quarterly meeting of the Tennessee Board of Boiler
	V. Chief Boiler Inspector's Report	5.	Rules. There are agendas on the back table, if
. ,	VI. Assistant Chief Boiler Inspector's Report	6.	you've not already received one of those. There are
		7.	snacks in the back of the room, so feel free to make
	VII. Old Business	8.	yourself at home.
	* 17-06	9.	I'm calling this meeting to order,
	* 17-11	10.	and so the first order is introductions and
	* 17-15		
	* 17-16	11.	announcements. So we'll start with our court
	VIII. New Business	12.	reporter.
		13.	THE REPORTER: Dominique Dubois,
	* 17-17	14.	Stone & George Court Reporting.
i.	* 17-18	15.	MR. ROBINSON: Eugene Robinson,
	* 17-19	16.	Assistant Chief Boiler Inspector.
	IX. Open Discussion Items	17.	MR. CHAPMAN: Sam Chapman, Chief
	* Status of the 2018 Tennessee Boiler	18.	Boiler Inspector.
	Safety Conference  * Update on administering the National	19.	MR. FOX: Terry Fox, Board member.
	Board Commission Exam	20.	MR. PISCHKE: Mike Pischke, Board
	* Dow Chemical - State Special	21.	member.
	X. Rule Cases and Interpretations	22.	CHAIRMAN MORELOCK: Brian Morelock,
	·	23.	Board member.
	XI. The next Board of Boiler Rules Meeting is scheduled for 9:00 a.m. (CST), Wednesday,	24.	MR. HARGROVE: Good morning.
i.	March 14, 2018, at the Department of Labor & Workforce Development Office	25.	Keith Hargrove, Board member.
	Building located at 220 French Landing	25.	Rettii Hargiove, Board memoer.
	D. C.		D.
	Page 6	١.	Page
•	Drive, Nashville, Tennessee.	1.	MR. BAUGHMAN: Good morning.
	XII. Adjournment	2.	Dave Baughman, Board member.
		3.	MR. BOWERS: Good morning.
•		4.	Harold Bowers, Board member.
		5.	MS. JEFFERSON: Kim Jefferson,
		6.	Assistant Commissioner.
		7.	MR. BAILEY: Dan Bailey, legal
		8.	counsel.
		9.	MR. GROSS: Jeremy Gross. I'm from
		10.	the Valero Memphis Refinery.
		11.	MR. ENG: Richard Eng, Wacker
		12.	Chemical.
		13.	MR. ESKRIDGE: I'm Chip Eskridge,
		14.	here representing Dow Chemical.
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		15.	MR. BYRD: Good morning. My name's
		16.	Wes Byrd, and I'm with Dow Chemical Company.
		17.	MR. PAULEY: Hi. I'm Brian Pauley,
		18.	Dow Chemical.
		19.	MR. HANEY: Michael Haney with
		20.	Facility Diagnostics here with LaFollette Medical
		21.	Center.
		22.	MR. ANDERSON: Jason Anderson
		23.	representing LaFollette Medical Center.
		24.	MS. RHONE: Deboran Rhone, Boiler
			MS. RHONE: Deborah Rhone, Boiler Office Supervisor.
		24.	

		Page 9		Page 11
1.	MR. SANTOS: Good morning.		1.	replaced with an ASME vessel.
2.	Carlos Santos, Foxboro Schneider Electric here to		2.	THE REPORTER: Could you please state
3.	help with BASF, Amnicola.		3.	your name.
4.	MS. DAVIS: Brittany Davis, BASF.		4.	MR. ESKRIDGE: It's Chip Eskridge.
5.	MR. HAYS: Chris Hays, BASF.		5.	E-S-K and then ridge, Eskridge.
6.	MS. BROWN: Heather Brown, Department		6.	CHAIRMAN MORELOCK: Okay. So we will
7.	of Labor, Commissioner's Office.		7.	add that as our that's our third discussion item
8.	MR. ORMANOSKI: Kevin Ormanoski,		8.	on the agenda.
9.	Nucor Steel, Memphis.		9.	Are there any other additions to the
10.	MR. CHOINIERE: Laval Choiniere,		10.	agenda? Okay. Hearing none, do I have a motion
11.	Kayser-Roth Corporation.		11.	to accept the agenda as presented?
12.	MR. NEVILLE: James Neville, Neville		12.	MR. PISCHKE: So moved.
13.	Engineering.		13.	CHAIRMAN MORELOCK: Do I have a
14.	CHAIRMAN MORELOCK: Okay. Again,		14.	second?
15.	welcome and thank you for your attendance today.		15.	MR. HARGROVE: Second.
16.	I'll begin the meeting with a short		16.	CHAIRMAN MORELOCK: Any further
17.	safety item. In the event there's an emergency or		17.	discussion? All in favor, say "aye."
18.	a natural disaster, we'll have security personnel		18.	MR. HARGROVE: Aye.
19.	that will escort us to a safe place in the		19.	MR. BOWERS: Aye.
20.	building, or if need be, to evacuate, we would		20.	MR. PISCHKE: Aye.
21.	evacuate the building to the Rosa Parks side of		21.	MR. BAUGHMAN: Aye.
22.	the building. So I just want to make you aware of		22.	MR. FOX: Aye.
23.	that.		23.	CHAIRMAN MORELOCK: Opposed?
24.	For our presenters and visitors, this		24.	Abstentions? Not voting? We have an agenda.
25.	is an open meeting. You're certainly welcome to		25.	Okay. Our next item on the agenda is
				·
		Page 10		Page 12
1.	participate in the discussion if you have	Page 10	1.	Page 12 approval of the September 20th meeting minutes.
1. 2.		Page 10	1. 2.	_
1	participate in the discussion if you have	Page 10		approval of the September 20th meeting minutes.
2.	participate in the discussion if you have questions or comments. Also, I would request from	Page 10	2.	approval of the September 20th meeting minutes.  Do I have a motion to approve those?
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2. 3. 4.	participate in the discussion if you have questions or comments. Also, I would request from you, as a courtesy to the meeting, if please put your cell phones on vibrate or silent during	Page 10	2. 3. 4.	approval of the September 20th meeting minutes.  Do I have a motion to approve those?  MR. PISCHKE: So moved.  CHAIRMAN MORELOCK: Do I have a
2. 3. 4. 5.	participate in the discussion if you have questions or comments. Also, I would request from you, as a courtesy to the meeting, if please put your cell phones on vibrate or silent during this meeting.	Page 10	2. 3. 4. 5.	approval of the September 20th meeting minutes.  Do I have a motion to approve those?  MR. PISCHKE: So moved.  CHAIRMAN MORELOCK: Do I have a second?
2. 3. 4. 5. 6.	participate in the discussion if you have questions or comments. Also, I would request from you, as a courtesy to the meeting, if please put your cell phones on vibrate or silent during this meeting.  And I do want to say that I want	Page 10	<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> </ol>	approval of the September 20th meeting minutes.  Do I have a motion to approve those?  MR. PISCHKE: So moved.  CHAIRMAN MORELOCK: Do I have a second?  MR. BAUGHMAN: Second.
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2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.	participate in the discussion if you have questions or comments. Also, I would request from you, as a courtesy to the meeting, if please put your cell phones on vibrate or silent during this meeting.  And I do want to say that I want to welcome our new board members, Mr. Fox and Mr. Bowers. I was not here at the September meeting, and so it's good to have a fully sitting board, and I want to thank the Department of Labor for helping us accomplish that. So very pleased to have you gentlemen with us today.  MR. HARGROVE: Here, here.  CHAIRMAN MORELOCK: Are there any other announcements before we move on? Okay.  Our next item on the agenda is adoption of the agenda. So are there any new items? Yes?	Page 10	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.	approval of the September 20th meeting minutes.  Do I have a motion to approve those?  MR. PISCHKE: So moved.  CHAIRMAN MORELOCK: Do I have a second?  MR. BAUGHMAN: Second.  CHAIRMAN MORELOCK: Okay. Any discussion about the minutes? Changes? Okay.  Hearing none, I'll call the question. All in favor, say, "aye."  MR. PISCHKE: Aye.  MR. BOWERS: Aye.  MR. BOWERS: Aye.  MR. HARGROVE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  CHAIRMAN MORELOCK: Opposed?  Abstentions? Not voting? The minutes are approved.  That takes us to Item 7 on the
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1. 2.	Page 13			
2	MR. CHAPMAN: Thanks Chairman.	1.	approved with a follow-up by Jesse Smith, one of	Page 15
	Number of delinquent number of inspections for	2.	our deputy inspectors.	
3.	the State inspector is 2,063. Insurance agent is	3.	UPM Pfizer, Bristol was acceptable.	
4.	5,284, giving us a total of 7,347.	4.	And J.M. Huber in Etowah: On-screen shut-off	
5.	Delinquent report as of October is	5.	button was installed instead of a mushroom,	
6.	68,977 vessels in the state. State inspectors	6.	rejected (verbatim). That's all.	
7.	performed 1,463. Insurance agent delinquent is	7.	CHAIRMAN MORELOCK: Okay. Any	
8.	performed 583, giving us a total of 2,046.	8.	questions about the Assistant Chief's report?	
9.	Number of violations found was 11,	9.	MR. BAUGHMAN: That's a good report.	
10.	and we have seven uncorrected. I performed I	10.	CHAIRMAN MORELOCK: Good report.	
11.	went to the National Board in October to give NBIC	11.	Okay.	
12.	training, and we have four new additional	12.	Now, moving to Item Number 7, we have	
13.	commission inspectors (verbatim).	13.	some old business items that we're going to review	
14.	CHAIRMAN MORELOCK: Good.	14.	today. And just so everybody knows, when your	
15.	MR. BAUGHMAN: Good.	15.	item comes up, we would ask that the	
16.	MR. HARGROVE: Here, here.	16.	representative please come to the table so that	
17.	MR. CHAPMAN: So we're almost fully	17.	your presentation can be heard clearly. And so	
18.	staffed as far as State inspectors.	18.	we'll begin with Item 17-06, LaFollette Medical	
19.	CHAIRMAN MORELOCK: That's great.	19.	Center, Tennova Healthcare, requesting a new	
20.	MR. CHAPMAN: And that is the Chief's	20.	variance for two boilers. And if you'll introduce	
21.	Report.	21.	yourselves and present your variance.	
22.	CHAIRMAN MORELOCK: Okay. Are there	22.	MR. HANEY: So I'm Michael Haney with	
23.	any questions or comments about the Chief's report?	23.	Facility Diagnostics. The hospital hired me to help	
24.	Yes, Chip?	24.	them put together the variance manual.	
25.	MR. ESKRIDGE: The number of	25.	MR. ANDERSON: I'm Jason Anderson,	
	Page 14			Page 16
1.	inspections by the State and by an agency was	1.	the Director of Plant Operations.	Ü
2.	that through was that the quarter or was that	2.	MR. BAILEY: Mr. Chairman?	
3.	MR. CHAPMAN: That's for the quarter.	3.	CHAIRMAN MORELOCK: Yes.	
4.	MR. ESKRIDGE: Okay. Good.	4.	MR. BAUGHMAN: Any conflicts?	
5.	MR. CHAPMAN: Yes.	5.	CHAIRMAN MORELOCK: Are there any	
6.	CHAIRMAN MORELOCK: Any other	6.	conflicts for this particular item? Okay. Hearing	
7.	questions? All right.	7.	none, proceed.	
8.	Moving along to Item 6, Assistant	8.	MR. BAILEY: I'd also like to remind	
9.	Chief Inspector's Report.	9.	everybody, this is being transcribed so make sure	
10.	MR. ROBINSON: Assistant Chief's	10.	it's one person talking at a time, and if the	
11.	Report. To date, we have a know 113 known	11.	other if someone's asking you a question, let	
12.	variances, and we have 13 that are requiring	12.	them ask the question, then answer it. Try not to	
13.	follow-up; 46 have been verified and approved; 11	13.	have interruptions like that. Thank you.	
14.	require reinspection; 43 no longer required	14.	CHAIRMAN MORELOCK: Okay.	
15.	variances or are dormant. This quarter, we	15.	MR. ANDERSON: Did everyone receive	
16.	completed seven variance audits with four approved	16.	the actual variance? The boiler variance manuals?	
17.	and three requiring follow-up.	17.	CHAIRMAN MORELOCK: Yes.	
18.	The actual locations are TriStar	18.	MR. ANDERSON: I just wanted to make	
19.	Skyline. Madison was approved. Mayfield Dairy	19.	sure, because we had some confusing	
20.	Farms in Athens follow-up was rejected because	20.	MR. ROBINSON: We received several	
21.	lab personnel wasn't trained properly.	21.	copies.	
22.	WM Wrigley in Chattanooga was	22.	MR. ANDERSON: Yeah. From what I	
23.	rejected due to monitoring station failure	23.	understand, you did. We're very sorry about that.	
24.	breakdown. Dow Chemical was approved in	24.	Essentially, we're for a we have a 20-minute	
25.	Knoxville. Nuclear Fuel Services in Erwin was	25.	right now, trying to get to a 4-hour.	
	Provided by Stone & George (	Cou	rt Reporting (615) 268-1244	

		Page 17		Page 19
1.	We have two boilers, 150 psi that are	ruge 17	1.	MR. PISCHKE: So moved.
2.	run at 75 psi. And we have the remote the		2.	CHAIRMAN MORELOCK: Do I have a
3.	sorry, you'll have to bear with me. This is the		3.	second?
4.	first time me doing this (verbatim).		4.	MR. HARGROVE: Second.
5.	The remote operation panel at our		5.	CHAIRMAN MORELOCK: Okay. I'll open
6.	facility is located in the emergency department of		6.	the floor now for questions from the board,
7.	registration that is staffed 24 hours a day. The		7.	comments.
8.	people that work in there are also the people that		8.	MR. HARGROVE: On behalf of the
9.	monitor the boiler remote monitoring system.		9.	board, thank you for being here.
10.	Our security office is also directly		10.	Two quick questions. In terms of the
11.	in that same area. So as far as they're		11.	organizational chart, it indicates that the boiler
12.	trained twice a year. Right now, we do 20-minute		12.	monitor reports to a the patient access
13.	checks. Our boilers our two boilers, the		13.	manager.
14.	Cleaver-Brooks and the Hurst are blown down once		14.	MR. ANDERSON: Yes.
15.	per shift. Actually, twice a day; once on day		15.	MR. HARGROVE: Why is that versus
16.	shift, once on evening shift.		16.	reporting to you, the DPO?
17.	So essentially, what takes place if		17.	MR. ANDERSON: The boiler monitor is
18.	the remote monitoring alarm goes off is: in I		18.	essentially the patient access associate who is
19.	don't know that it has a page number but it should		19.	who works in ED registration. That post is manned
20.	be a colored page in the manual. I think it's		20.	24 hours a day. Even though my security post I
21.	orange. Upon activation of the alarm, the red		21.	have security 24 hours a day, they are not
22.	boiler emergency stop button is obviously pressed.		22.	necessarily always directly in that office.
23.	That's what they're trained to. They're to		23.	Patient access associate is, and
24.	contact engineering by a hospital paging system.		24.	that's why the monitor was placed there. That
25.	After one minute, if they are not		25.	is those employees, that is Donna Carson, who
		Page 18		Page 20
1.	called back or responded to, they are to call via	rage 10	1.	is the patient access manager that is their
2.	the hospital's phone system.		2.	direct boss, and that's why it was assigned that
3.	At that point, after one minute, if		3.	way.
4.	no one is to call back, they are to start calling		4.	MR. HARGROVE: So essentially,
5.	the people on the list. Obviously, my name is		5.	because someone is there 24 hours, that's why the
6.	first, being the director of plant operations. My		6.	report
7.	maintenance supervisor is second. The assistant		7.	MR. ANDERSON: Yes. Yes, sir.
8.	maintenance supervisor is third. Security on call		8.	MR. HARGROVE: Okay. And I didn't
9.	is fourth, and Sarah Lloyd, who is our COO, is		9.	see the year of Boiler 2. It was a Cleaver-Brooks.
10.	fifth.		10.	What year was that boiler manufactured?
11.	As I said before, security is we		11.	MR. ANDERSON: What year was the
12.	have security there and engineering there 24 hours		12.	boiler manufactured?
13.	a day. Now, on a night shift, security and		13.	MR. HANEY: It's not listed.
14.	engineer act as the same person, but they are		14.	MR. ANDERSON: It's not listed on
15.	within steps of from where the actual remote		15.	there. I believe that boiler was manufactured in
16.	boiler monitor is. So I don't foresee there being		16.	let's see, 2002.
17.	an issue getting ahold of someone.		17.	CHAIRMAN MORELOCK: You just you
18.	I know that when I talked to		18.	need to put that in your manual.
19.	Mr. Chapman on the phone, we had issues,		19.	MR. ANDERSON: Okay.
20.	obviously, with my cell phone number not being on		20.	MR. HARGROVE: Absolutely.
21.	there, which they corrected. But other than that		21.	CHAIRMAN MORELOCK: Any other
22.	I don't really have anything else. Any I mean,		22.	comments?
23.	questions, obviously, but		23.	MR. HARGROVE: No.
24.	CHAIRMAN MORELOCK: Okay. Do I ha	ave	24.	CHAIRMAN MORELOCK: Any comments from
25.	a motion to discuss this item?		25.	the board?
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		9	- <del>-</del>	

	P	age 21	Page 2
1.	MR. BAUGHMAN: Yes.		access associate remote boiler operator, if other
2.	CHAIRMAN MORELOCK: Okay.		2. personnel aren't available, to where they would be
3.	MR. BAUGHMAN: It says the control		3. going down to the boiler room themselves?
4.	panel this is under the orange page, heading of		4. MR. ANDERSON: There should not be.
5.	Facilities Diagnostics, and on the third paragraph,		5. MR. BAUGHMAN: Understand.
6.	it says, the control panel is password protected to		6. MR. ANDERSON: Yeah. There should
7.	protect from unauthorized changes.		7. not be. Our boiler room access is restricted,
8.	Who has the password?		8. obviously.
9.	MR. ANDERSON: Who has the password?		9. MR. BAUGHMAN: To?
10.	Security, myself, and the COO, and then my	1	10. MR. ANDERSON: To security and
11.	maintenance supervisor, Tommy Jackson.	1	11. engineering.
12.	MR. BAUGHMAN: Okay. So it	1	12. MR. BAUGHMAN: What I'm looking at is
13.	designates that a if the remote station personnel	1	13. if there's an issue that comes up within the
14.	leave their post, a boiler attendant or another	1	14. hospital, some tragic incident where you've got
15.	trained remote monitor personnel must attend the	1	15. multiple patients coming in and you've got security
16.	boilers.	1	16. tied up you've got people that are patient access
17.	MR. ANDERSON: Yes, sir.	1	17. associates, but I take it they're doing registration
18.	MR. BAUGHMAN: Or remote monitoring	$ _1$	18. duties and what have you if there's ever a time
19.	station. Who have we got designated as boiler	1	19. when there's a possibility that there could be
20.	attendants?	2	20. nobody available to go to the boiler room.
21.	MR. ANDERSON: The designated boiler	2	21. MR. ANDERSON: The from my
22.	attendant when they leave I mean, honestly, it	2	22. understanding, what our policy and procedure
23.	depends on what shift you're talking about.	2	23. states that it's the when the ED registration
24.	MR. BAUGHMAN: Just go	2	24. person that the ED registration person is not
25.	MR. ANDERSON: Well, it's	2	25. allowed to leave their desk unless they are relieved
	P	age 22	Page 2
1.	P maintenance, engineering, or security.	· I	Page 2  1. by someone else. The only person that relieves them
1. 2.			<ol> <li>by someone else. The only person that relieves them</li> <li>is either another ED registration personnel or a</li> </ol>
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	Page 25	1	Page 27
1.	CHAIRMAN MORELOCK: Any other	1.	MR. PISCHKE: Right here.
2.	comments? Yes, Mr. Pischke?	2.	CHAIRMAN MORELOCK: It's right here.
3.	MR. PISCHKE: I was just going to	3.	MR. BAUGHMAN: Is it? Oh, got it.
4.	build on the one point that you were talking about.	4.	Just went right over it. Thank you.
5.	When they leave their post, if they	5.	MR. ROBINSON: Appendix C.
6.	need to leave their post, the procedure on making	6.	CHAIRMAN MORELOCK: Yeah. Any other
7.	sure that somebody is there. I mean, is this a	7.	comments? I've just got a few. On Page 5, for your
8.	written procedure that they're trained on and	8.	emergency procedure, I would just ask that for
9.	certified to, or is this	9.	it's the fifth paragraph. It's a single sentence,
10.	MR. ANDERSON: It's a written policy	10.	but it says, "If the remote station personnel leave
11.	that they sign.	11.	their post, a boiler attendant or another trained
12.	MR. PISCHKE: Okay. Okay.	12.	remote monitor personnel must attend the boiler or a
13.	MR. ANDERSON: It's a written policy	13.	remote monitoring station."
14.	that they sign, and we go through the policies	14.	After "must attend the boiler," I
15.	roughly every six months.	15.	would ask that you add per 0800-03-0308(11),
16.	MR. PISCHKE: Okay.	16.	parenthetical 11, which is the 20-minute rule.
17.	MR. ANDERSON: And it's also	17.	MR. ANDERSON: Okay.
18.	something, kind of, that I won't say written, but	18.	CHAIRMAN MORELOCK: On Page 4, right
19.	that we check on as far as I kind of do spot	19.	next door, you talk about the patient access
20.	checks of seeing when people are in there.	20.	associate/remote monitor.
21.	Because I mean, obviously we have	21.	So that those six items is the
22.	other alarm systems in there also.	22.	complete job description for that patient access
23.	MR. PISCHKE: Okay.	23.	associate; is that correct?
24.	MR. ANDERSON: So we have to make	24.	MR. ANDERSON: Yes, sir.
25.	sure that's essentially where everything to that	25.	CHAIRMAN MORELOCK: Okay. A lot of
	,		·
	Page 26		Page 28
1.	Page 26 effect is put, is because it is manned 24 hours a	1.	Page 28 times we'll see those job descriptions in an
1. 2.	-	1. 2.	-
1	effect is put, is because it is manned 24 hours a	1	times we'll see those job descriptions in an
2.	effect is put, is because it is manned 24 hours a day and there's always someone in there, regardless	2.	times we'll see those job descriptions in an appendix. That's why I'm asking.
2. 3.	effect is put, is because it is manned 24 hours a day and there's always someone in there, regardless if they are registering patients or not.	2. 3.	times we'll see those job descriptions in an appendix. That's why I'm asking.  In Appendix E, your organizational
2. 3. 4.	effect is put, is because it is manned 24 hours a day and there's always someone in there, regardless if they are registering patients or not.  Even if it's just a body of security	2. 3. 4.	times we'll see those job descriptions in an appendix. That's why I'm asking.  In Appendix E, your organizational chart I do not find I do not find any
2. 3. 4. 5.	effect is put, is because it is manned 24 hours a day and there's always someone in there, regardless if they are registering patients or not.  Even if it's just a body of security sitting in there, there's always someone in that	2. 3. 4. 5.	times we'll see those job descriptions in an appendix. That's why I'm asking.  In Appendix E, your organizational chart I do not find I do not find any information for the boiler attendants on your
2. 3. 4. 5. 6.	effect is put, is because it is manned 24 hours a day and there's always someone in there, regardless if they are registering patients or not.  Even if it's just a body of security sitting in there, there's always someone in that room.	2. 3. 4. 5. 6.	times we'll see those job descriptions in an appendix. That's why I'm asking.  In Appendix E, your organizational chart I do not find I do not find any information for the boiler attendants on your organizational chart, unless I'm overlooking it.
2. 3. 4. 5. 6. 7.	effect is put, is because it is manned 24 hours a day and there's always someone in there, regardless if they are registering patients or not.  Even if it's just a body of security sitting in there, there's always someone in that room.  MR. PISCHKE: Okay. Thank you.	2. 3. 4. 5. 6. 7.	times we'll see those job descriptions in an appendix. That's why I'm asking.  In Appendix E, your organizational chart I do not find I do not find any information for the boiler attendants on your organizational chart, unless I'm overlooking it.  I see the remote boiler monitors, but
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	Page 29		Page	e 31
1.	variance manuals together, certainly, you know your	1.	that's just like I said, we want to I mean,	0 31
2.	people, you know their titles and all that, but we	2.	that's the purpose of testing your system every day,	
3.	don't. So make sure their titles are the same	3.	every shift. Make sure that remote monitoring	
4.	MR. ANDERSON: Okay.	4.	station is going to do its job for you.	
5.	CHAIRMAN MORELOCK: consistent way	5.	And I do applaud you for inside	
6.	throughout the manual, because a lot of times	6.	the manual, you do have the correct reference to	
7.	they'll change and we don't know if that's a	7.	the 20-minute rule that I just discussed.	
8.	different person or the same person.	8.	Because of our recent rule change,	
9.	MR. ANDERSON: Okay.	9.	it's now 11 instead of 22. However, your cover	
10.	CHAIRMAN MORELOCK: So just bear that	10.	sheet still has the original rule number, so your	
11.	in mind.	11.	cover page needs to be 0800-03-0308(11), as	
12.	MR. ANDERSON: Okay. Thank you.	12.	well.	
13.	CHAIRMAN MORELOCK: I don't see a	13.	MR. HANEY: That must have slipped	
14.	section in the manual for the boiler attendant	14.	by. Sorry about that.	
15.	responsibilities, training, and description.	15.	CHAIRMAN MORELOCK: Okay. Just for	
16.	And the maintenance staff that	16.	clarity, and on Page 1, in the third paragraph of	
17.	fulfill that role what are their other duties?	17.	your cover letter, the second sentence states:	
18.	Just what you have for the remote monitoring,	18.	"Upon approval, the owner will request an inspection	
19.	you'll also want to have that	19.	by the State's local boiler inspector. When the	
20.	MR. ANDERSON: Okay.	20.	local inspection is complete and all requirements	
21.	CHAIRMAN MORELOCK: for the boiler	21.	are satisfied, the State Board will review again for	
22.	operator or boiler attendant, whatever you choose to	22.	approval."	
23.	call them.	23.	That's not true. You will get a	
24.	MR. HANEY: So you want their job	24.	contingent approval here today, then the site	
25.	description included?	25.	visit will complete that approval process.	
	description included.	23.	visit will complete that approval process.	
1		1		
	Page 30		Раде	a 32
1	Page 30 CHAIRMAN MORELOCK: Yes, Yes, Ldo	1	Page So you really don't need that last	e 32
1.	CHAIRMAN MORELOCK: Yes. Yes, I do.	1.	So you really don't need that last	e 32
2.	CHAIRMAN MORELOCK: Yes. Yes, I do. Okay.	2.	So you really don't need that last part of that sentence. Because we don't want to	e 32
2. 3.	CHAIRMAN MORELOCK: Yes. Yes, I do. Okay. In Appendix H, one of the things	2. 3.	So you really don't need that last part of that sentence. Because we don't want to impose again, this is your manual we're going	e 32
2. 3. 4.	CHAIRMAN MORELOCK: Yes. Yes, I do. Okay. In Appendix H, one of the things that'll happen is when you have a site visit from	2. 3. 4.	So you really don't need that last part of that sentence. Because we don't want to impose again, this is your manual we're going to hold you to, so you don't want to have to come	e 32
2. 3. 4. 5.	CHAIRMAN MORELOCK: Yes. Yes, I do. Okay.  In Appendix H, one of the things that'll happen is when you have a site visit from the State is they need a list of fault codes	2. 3. 4. 5.	So you really don't need that last part of that sentence. Because we don't want to impose again, this is your manual we're going to hold you to, so you don't want to have to come back and see us again.	e 32
2. 3. 4. 5. 6.	CHAIRMAN MORELOCK: Yes. Yes, I do. Okay.  In Appendix H, one of the things that'll happen is when you have a site visit from the State is they need a list of fault codes that they can go and have you actuate to see if	2. 3. 4. 5. 6.	So you really don't need that last part of that sentence. Because we don't want to impose again, this is your manual we're going to hold you to, so you don't want to have to come back and see us again.  MR. HANEY: So once the State does	e 32
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1. 2. 3. 4. 5. 6. 7.	Page 33 CHAIRMAN MORELOCK: Okay. So we want to make sure that they don't have to be an Olympic marathon	1.	MR. BAUGHMAN: As far as you know. I	Page 35
2. 3. 4. 5. 6.	to make sure that they don't have to be an Olympic	l '	17111 2110 011711 11 11 11 11 11 11 11 11 11 11 11 1	
<ul><li>3.</li><li>4.</li><li>5.</li><li>6.</li></ul>	* *	<b>1</b> 2.	mean, through testing	
4. 5. 6.	maratnon	3.	MR. ANDERSON: That it the low	
5. 6.	MR. ANDERSON: Okay.	4.	water yes.	
6.	CHAIRMAN MORELOCK: runner to get	5.	MR. BAUGHMAN: previously	
	there in that one minute.	6.	MR. ANDERSON: Yes.	
1.	Appendix D. Appendix D shows how to	7.	MR. BAUGHMAN: it does.	
8.	shut down the boiler in an emergency, but it	8.	MR. ANDERSON: Yes. When the	
9.	doesn't tell the remote operator how to help the	9.	company that installed this, Advance Boiler	
9. 10.	boiler attendant restart the boiler once the	10.	Company obviously, it's a different company than	
10.	emergency's been cleared.	11.	who we deal with now.	
12.	MR. HANEY: I don't think that's	12.	But when Reid from Advance came and	
		l '		
13.	their job, right?	13.	had this installed, they tested everything and it	
14.	MR. ANDERSON: No. That would not be	14.	came to my knowledge, the low water came	
15.	the boiler monitor's position to do that.	15.	through that. There was not there wasn't	
16.	CHAIRMAN MORELOCK: Well, but they	16.	anything that was separated out or came through as	
17.	have to work with the boiler attendant to restart	17.	a different alarm.	
18.	the boiler, correct?	18.	MR. BAUGHMAN: Okay.	
19.	You're showing them how to shut it	19.	CHAIRMAN MORELOCK: Well, and that	
20.	down, which is good, and this is good just for an	20.	could be tested.	
21.	emergency procedure, but your emergency procedure	21.	MR. BAUGHMAN: Yeah.	
22.	is on Page 5. So you need to help them	22.	MR. ANDERSON: Yes. And that can be	
23.	MR. HANEY: Yeah.	23.	tested.	
24.	CHAIRMAN MORELOCK: restart the	24.	CHAIRMAN MORELOCK: That could be	
25.	boiler after they've cleared the emergency.	25.	tested.	
1	Page 34		MD ANDERSON A LL	Page 36
1.	MR. ANDERSON: Okay.	1.	MR. ANDERSON: And obviously, we	
2.	CHAIRMAN MORELOCK: And I think	2.	actually depending they come in at certain	
3.	based on the other comments, I think that covers	3.	intervals and do testing. So when Richie comes	
4. -	mine. So that's all I have.	4.	Knoxville Boiler comes to check that, then we	
5.	MR. BAUGHMAN: I've got additional.	5.	obviously can have him test that. And we'll have	
6.	CHAIRMAN MORELOCK: Okay.	6.	him test it, I mean.	
7.	MR. BAUGHMAN: So all of the	7.	MR. BAUGHMAN: Well, and it should be	
8.	annunciation and the alarms go through the Honeywell	8.	being tested during your regular operation	
9.	annunciator?	9.	MR. ANDERSON: Operation.	
10.	MR. HANEY: Yes, sir.	10.	MR. BAUGHMAN: on the daily shift	
11.	MR. BAUGHMAN: Okay. In reading	11.	and what have you. We want to do a positive check	
12.	through what's hooked up to the annunciator, and	12.	to the low-water cutoff. I would ask that during	
	just what's in your manual showing what's hooked up,	13.	the inspection of the variance, that that be looked	
14.	you showed things from the standpoint of there's	14.	at.	
15.	a high water alarm circuit that's connected.	15.	MR. ANDERSON: Okay.	
16.	There's modulating circuits; there's displaying the	16.	MR. BAUGHMAN: Because all the	
17.	steam flow, and so forth.	17.	alarms, whatever the boiler goes off on no matter	
18.	But the low water does not show being	18.	what it is, should annunciate back to the remote	
19.	connected through the UDC controller to the Modbus	19.	operator station.	
20.	communications.	20.	One other piece that was just lacking	
21.	And so my question is: In low water,	21.	that's not a requirement, but it's good info to	
22.	does it give a separate alarm instead of going	22.	have, is you show that you have a DA	
23.	through the Modbus?	23.	MR. ANDERSON: Yes, sir.	
24.	MR. ANDERSON: As far as I know it	24.	MR. BAUGHMAN: for a boiler	
25.	goes through the Modbus.	25.	feedwater system.	
	Provided by Stone & George C	<u> </u>	et Departing (C45) 000 4044	

		Page 37		Page 39
1.	MR. ANDERSON: Yes, sir.	1 age 37	1.	notify them that the boilers have been shut down due
2.	MR. BAUGHMAN: And there's just no		2.	to the alarm activation.
3.	information concerning the DA itself. And the DA,		3.	MR. ANDERSON: We could move security
4.	being an integral part of the operation		4.	on call to above me, because they're there 24 hours
5.	MR. ANDERSON: Okay.		5.	a day, so obviously that would make sense.
6.	MR. BAUGHMAN: I'd like to see		6.	MR. ROBINSON: So you can fix that.
7.	that information.		7.	MR. ANDERSON: Yes.
8.	MR. ANDERSON: Okay.		8.	MR. ROBINSON: On Pages 4 and 5,
9.	MR. BAUGHMAN: Not that it's a		9.	you've got we just want a colored page for the
10.	requirement, but I'd like to see that.		10.	emergency procedure.
11.	MR. HANEY: What like, model		11.	MR. ANDERSON: Okay.
12.	number, size, feedwater pump, that		12.	MR. ROBINSON: And
13.	MR. BAUGHMAN: Relief valve		13.	MR. HANEY: Yeah. I think that
14.	MR. ANDERSON: Okay.		14.	should have been Appendix D.
15.	MR. BAUGHMAN: year, national		15.	MR. ANDERSON: That should have been
16.	board number, so forth.		16.	Appendix D. They colored the wrong page.
17.	CHAIRMAN MORELOCK: Any other		17.	That should have been the remote
18.	comments? Okay. Hearing none		18.	boiler monitoring procedures that is Appendix D
19.	MR. BAUGHMAN: Wait. Mr		19.	that just shows push the red boiler
20.	CHAIRMAN MORELOCK: Yes.		20.	emergency
21.	MR. ROBINSON: Just a couple		21.	CHAIRMAN MORELOCK: Yeah.
22.	questions.		22.	MR. ANDERSON: stop button and all
23.	CHAIRMAN MORELOCK: Okay.		23.	that. That should have been
24.	MR. ROBINSON: Editorial. On Page 3,		24.	MR. HANEY: That's the sign that's on
25.	your introduction. You've got medium pressure		25.	the wall.
		Page 38		Page 40
1.	100-horsepower boilers. They're high pressure.	Page 38	1.	Page 40 MR. ANDERSON: the colored page.
1. 2.	100-horsepower boilers. They're high pressure. Change that to high pressure.	Page 38	1. 2.	-
1		Page 38	l '	MR. ANDERSON: the colored page.
2.	Change that to high pressure.	Page 38	2.	MR. ANDERSON: the colored page. CHAIRMAN MORELOCK: Well, and then
2. 3.	Change that to high pressure.  Then on Page 6 excuse me, Page 5.	Page 38	2. 3.	MR. ANDERSON: the colored page. CHAIRMAN MORELOCK: Well, and then saying that, my comment can be stricken, because
2. 3. 4.	Change that to high pressure.  Then on Page 6 excuse me, Page 5.  And it's going to be Line Items 3, 5, and 6. And	Page 38	2. 3. 4.	MR. ANDERSON: the colored page. CHAIRMAN MORELOCK: Well, and then saying that, my comment can be stricken, because that will be your emergency procedure instead of
2. 3. 4. 5.	Change that to high pressure.  Then on Page 6 excuse me, Page 5.  And it's going to be Line Items 3, 5, and 6. And for example, number 3, remote boiler monitoring to	Page 38	2. 3. 4. 5.	MR. ANDERSON: the colored page. CHAIRMAN MORELOCK: Well, and then saying that, my comment can be stricken, because that will be your emergency procedure instead of Page 5.
2. 3. 4. 5. 6.	Change that to high pressure.  Then on Page 6 excuse me, Page 5.  And it's going to be Line Items 3, 5, and 6. And for example, number 3, remote boiler monitoring to confirm test alarm signal is produced at the	Page 38	2. 3. 4. 5. 6.	MR. ANDERSON: the colored page. CHAIRMAN MORELOCK: Well, and then saying that, my comment can be stricken, because that will be your emergency procedure instead of Page 5. MR. HANEY: Correct. Yes.
2. 3. 4. 5. 6. 7.	Change that to high pressure.  Then on Page 6 excuse me, Page 5.  And it's going to be Line Items 3, 5, and 6. And for example, number 3, remote boiler monitoring to confirm test alarm signal is produced at the remote monitoring panel.	Page 38	2. 3. 4. 5. 6. 7.	MR. ANDERSON: the colored page. CHAIRMAN MORELOCK: Well, and then saying that, my comment can be stricken, because that will be your emergency procedure instead of Page 5. MR. HANEY: Correct. Yes. CHAIRMAN MORELOCK: Okay. That makes
2. 3. 4. 5. 6. 7. 8.	Change that to high pressure.  Then on Page 6 excuse me, Page 5.  And it's going to be Line Items 3, 5, and 6. And for example, number 3, remote boiler monitoring to confirm test alarm signal is produced at the remote monitoring panel.  Change those "to's" to "shall,"	Page 38	2. 3. 4. 5. 6. 7. 8.	MR. ANDERSON: the colored page. CHAIRMAN MORELOCK: Well, and then saying that, my comment can be stricken, because that will be your emergency procedure instead of Page 5. MR. HANEY: Correct. Yes. CHAIRMAN MORELOCK: Okay. That makes perfect sense.
2. 3. 4. 5. 6. 7. 8. 9.	Change that to high pressure.  Then on Page 6 excuse me, Page 5.  And it's going to be Line Items 3, 5, and 6. And for example, number 3, remote boiler monitoring to confirm test alarm signal is produced at the remote monitoring panel.  Change those "to's" to "shall," please (verbatim). You've got nine, three, boiler	Page 38	2. 3. 4. 5. 6. 7. 8. 9.	MR. ANDERSON: the colored page. CHAIRMAN MORELOCK: Well, and then saying that, my comment can be stricken, because that will be your emergency procedure instead of Page 5. MR. HANEY: Correct. Yes. CHAIRMAN MORELOCK: Okay. That makes perfect sense. MR. HANEY: Appendix D is what's on
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2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21.	Change that to high pressure.  Then on Page 6 excuse me, Page 5.  And it's going to be Line Items 3, 5, and 6. And for example, number 3, remote boiler monitoring to confirm test alarm signal is produced at the remote monitoring panel.  Change those "to's" to "shall," please (verbatim). You've got nine, three, boiler attendant shall visit the boiler room at least every four hours and then Number 6, the boiler attendant shall and take out the word, "note" log the remote monitoring test. When you get that, I'll continue.  MR. ANDERSON: Okay.  MR. ROBINSON: Page 5, your recall list. I had a question. It says to call you first.  Wouldn't it be better to call somebody who's on duty? I mean, what if it was at night and you were  MR. ANDERSON: Which security on	Page 38	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21.	MR. ANDERSON: the colored page. CHAIRMAN MORELOCK: Well, and then saying that, my comment can be stricken, because that will be your emergency procedure instead of Page 5.  MR. HANEY: Correct. Yes. CHAIRMAN MORELOCK: Okay. That makes perfect sense.  MR. HANEY: Appendix D is what's on the wall.  CHAIRMAN MORELOCK: Is your emergency procedure.  MR. ANDERSON: And that's the colored page  CHAIRMAN MORELOCK: Okay.  MR. ANDERSON: that's on the wall in registration right now.  CHAIRMAN MORELOCK: Okay.  MR. ANDERSON: Apparently, they colored the wrong page.  MR. ROBINSON: There is a manual at
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	Change that to high pressure.  Then on Page 6 excuse me, Page 5.  And it's going to be Line Items 3, 5, and 6. And for example, number 3, remote boiler monitoring to confirm test alarm signal is produced at the remote monitoring panel.  Change those "to's" to "shall," please (verbatim). You've got nine, three, boiler attendant shall visit the boiler room at least every four hours and then Number 6, the boiler attendant shall and take out the word, "note" log the remote monitoring test. When you get that, I'll continue.  MR. ANDERSON: Okay.  MR. ROBINSON: Page 5, your recall list. I had a question. It says to call you first.  Wouldn't it be better to call somebody who's on duty? I mean, what if it was at night and you were  MR. ANDERSON: Which security on call, too	Page 38	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	MR. ANDERSON: the colored page. CHAIRMAN MORELOCK: Well, and then saying that, my comment can be stricken, because that will be your emergency procedure instead of Page 5.  MR. HANEY: Correct. Yes. CHAIRMAN MORELOCK: Okay. That makes perfect sense.  MR. HANEY: Appendix D is what's on the wall.  CHAIRMAN MORELOCK: Is your emergency procedure.  MR. ANDERSON: And that's the colored page  CHAIRMAN MORELOCK: Okay.  MR. ANDERSON: that's on the wall in registration right now.  CHAIRMAN MORELOCK: Okay.  MR. ANDERSON: Apparently, they colored the wrong page.  MR. ROBINSON: There is a manual at the remote monitoring station, right?
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	Change that to high pressure.  Then on Page 6 excuse me, Page 5.  And it's going to be Line Items 3, 5, and 6. And for example, number 3, remote boiler monitoring to confirm test alarm signal is produced at the remote monitoring panel.  Change those "to's" to "shall," please (verbatim). You've got nine, three, boiler attendant shall visit the boiler room at least every four hours and then Number 6, the boiler attendant shall and take out the word, "note" log the remote monitoring test. When you get that, I'll continue.  MR. ANDERSON: Okay.  MR. ROBINSON: Page 5, your recall list. I had a question. It says to call you first.  Wouldn't it be better to call somebody who's on duty? I mean, what if it was at night and you were  MR. ANDERSON: Which security on call, too	Page 38	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	MR. ANDERSON: the colored page. CHAIRMAN MORELOCK: Well, and then saying that, my comment can be stricken, because that will be your emergency procedure instead of Page 5.  MR. HANEY: Correct. Yes. CHAIRMAN MORELOCK: Okay. That makes perfect sense. MR. HANEY: Appendix D is what's on the wall. CHAIRMAN MORELOCK: Is your emergency procedure. MR. ANDERSON: And that's the colored page CHAIRMAN MORELOCK: Okay. MR. ANDERSON: that's on the wall in registration right now. CHAIRMAN MORELOCK: Okay. MR. ANDERSON: Apparently, they colored the wrong page. MR. ROBINSON: There is a manual at the remote monitoring station, right? MR. ANDERSON: Yes, sir.

	Page	e 41	Page
1.	the monitoring station on the computer screen or is	1.	
2.	it a manual button?	2.	MR. PISCHKE: Aye.
3.	MR. ANDERSON: It is a manual button.	3.	MR. HARGROVE: Aye.
4.	MR. ROBINSON: Great. Thank you.	4.	MR. BAUGHMAN: Aye.
5.	That's all I have.	5.	MR. BOWERS: Aye.
6.	CHAIRMAN MORELOCK: Okay. Yes?	6.	MR. FOX: Aye.
7.	MR. BAUGHMAN: Last comment I have	7.	•
8.	there at the end of Page 5. When the alarm	8	
9.	condition is cleared, the boiler attendant shall	9	- · · · · · · · · · · · · · · · · · · ·
0.	contact the remote station personnel, the shutdown	10	
1.	switch should be reset and the boiler restarted in	111	·
2.	the mechanical room by the boiler attendant.	12	
2. 3.	There's no mention of	13	•
٥. 4.	troubleshooting. There's no mention of finding	$\begin{vmatrix} 13 \\ 14 \end{vmatrix}$	
5.	out what the condition was. It just says	15.	, ,
6.	somebody's going to go down and reset it, and life	16	
7.	is good. And there needs to be some clarification	17.	<i>3</i> , <i>3</i>
8.	as to what caused the condition before the reset	18	, ,
9.	is cleared, because otherwise, anybody can just	19.	
0.	hit a reset button and get up and get going. So I	20.	1 1
1.	don't know how quite to word that.	21.	
2.	CHAIRMAN MORELOCK: Well, I mean,	22.	
3.	it's not our it's not the board's responsibility	23.	
4.	to tell you how to operate your boiler. We're going	24.	, , , , , , , , , , , , , , , , , , ,
5.	to tell you to make sure you've cleared the alarm	25.	present I remembered are there any conflicts?
	Page	e 42	Page ·
1.	and you've taken care of it, because you have	1.	
2.	trained people that know how to do that. So we're	2.	MR. BOWERS: Yes, sir.
3.	not going to prescribe how to operate their boiler	3.	
4.	and their manual.	4	
5.	MR. BAUGHMAN: Okay.	5.	•
6.	CHAIRMAN MORELOCK: That's not	6	,
7.	that's outside of our responsibility.	7	
8.	MR. BAUGHMAN: I think it would be	8	
o. 9.		9	
	good, just from a protocol standpoint, to put it in		
0.	your SOP	10.	
1.	CHAIRMAN MORELOCK: Yes.	11.	• •
2.	MR. BAUGHMAN: that the condition	12	1 0
3.	be diagnosed before it's actually reset. Thank you,	13.	1
4. -	Brian.	14.	•
5.	CHAIRMAN MORELOCK: Okay. Any other	15.	*
6.	questions? Do I have a motion to approve this	16.	
7.	manual contingent on changes made to the manual	17.	
8.	based on board comments and a successful site visit	18.	plan it may be best if you turn to Figure 1 on
9.	from the chief inspector?	19.	the site plan on Page 2.
0.	MR. BOWERS: Motion to approve.	20.	There are two remote stations that
1	CHAIRMAN MORELOCK: Okay. I have a	21.	they are operating under. Remote Station 2 is for
1.	motion. Do I have a second?	22.	the first shift and second shift, and that is
		23.	being manned by a dye mixer is the job
2.	MR. PISCHKE: Second.		• • •
21. 22. 23. 24.	MR. PISCHKE: Second. CHAIRMAN MORELOCK: Any more	24.	description for that.

	Page 45			Page 47
1.	it from the knitting supervisor's officer. So	1.	MR. BAUGHMAN: Okay. So I take it	1 480 17
2.	that shows that's the 335 feet away from the	2.	when it got installed, it went through the	
3.	boiler room. The dimension on the Remote	3.	second-hand papers, installation, and so forth.	
4.	Station 2 is 27 feet away from it. So there's a	4.	MR. CHOINIERE: Correct.	
5.	pretty small dimension on that showing that	5.	CHAIRMAN MORELOCK: Any other	
6.	where that's located.	6.	questions or comments? Yes, sir.	
7.	The boilers we list the boilers in	7.	MR. BOWERS: Can I comment?	
8.	Appendix A. It will be under the variance.	8.	CHAIRMAN MORELOCK: Yes.	
9.	Boiler 1 was the boiler that was recently	9.	MR. BOWERS: Okay. The number	
10.	installed that will have the new Hawk 3000	10.	doesn't seem right. You're saying Number 1 Boiler	
11.	controls on the boiler.	11.	is the new boiler?	
12.	Boiler 2 will continue to have the	12.	MR. NEVILLE: New for this variance	
13.	Hawk ICS boiler controls that it had previously.	13.	or for this facility. Correct.	
14.	Other than that, there were no major changes to	14.	MR. BOWERS: The Tennessee Number	
15.	the variance from previous.	15.	doesn't jive to that. I mean, it's like	
16.	CHAIRMAN MORELOCK: Okay. Do I have	16.	T33-something.	
17.	a motion to discuss this variance?	17.	You see what I'm saying, Sam?	
18.	MR. PISCHKE: So moved.	18.	MR. CHAPMAN: Yeah, I see.	
19.	CHAIRMAN MORELOCK: Second?	19.	MR. BOWERS: How could that be a	
20.	MR. BAUGHMAN: Second.	20.	newer boiler when it has an old Tennessee number?	
21.	CHAIRMAN MORELOCK: Thank you.	21.	MR. CHAPMAN: Well, that's I don't	
22.	Further board comments and questions.	22.	know. I really don't because	
23.	MR. BAUGHMAN: I'll start.	23.	MR. BOWERS: The numbers don't jive	
24.	CHAIRMAN MORELOCK: Okay.	24.	with what he's saying.	
25.	MR. BAUGHMAN: James, you mentioned	25.	CHAIRMAN MORELOCK: Was the boiler	
25.	MR. D. 10 GIMIN. Sames, you mentioned	25.	CITIMENTAL VIOLEZOCIA. Was the boller	
1				
	Page 46	_		Page 48
1.	Page 46 that Boiler Number 1 was the one that was recently	1.	existing in Tennessee	Page 48
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Page 4 MR. NEVILLE: That's correct.	1 1.	Page 51 MR. BAUGHMAN: Well, I see the
		MR. DAUGHMAN. Well, I see the
MR. BAUGHMAN: But yet, Boiler Number	2.	yes, now I see the Hawk ICS. Thank you, James.
1 shows a half the input, maximum BTUs than what	3.	MR. NEVILLE: Yes, sir.
•	4.	MR. BAUGHMAN: So I noticed on the
	5.	MR. HARGROVE: B-2?
	- 1	CHAIRMAN MORELOCK: It's right here.
	7.	MR. BAUGHMAN: B-2. I notice under
	- 1	Appendix B under the Hawk 3000, one item that comes
		to mind that is an issue that I've got personally,
		and not that it's a stickler within what we're
• •	1	doing, but it shows that that control has the
•	- 1	capability of doing a remote setpoint change. And
	- 1	remote setpoint changes are not a good thing to have
	- 1	access to. Just as a note, not that it affects what
	- 1	our variance is doing, but we do have that
	- 1	capability within this particular control.
•		MR. NEVILLE: I do not believe
	- 1	they're using that feature, but
*		MR. BAUGHMAN: I understand.
•		MR. NEVILLE: But I understand it is
•		a feature.
		MR. BAUGHMAN: The concern is if
•		others outside of the industry decide to use that
	I '	feature
That's correct. Now, assuming because we	25.	MR. ROBINSON: Dave.
Page	50	Page 52
installed the Hawk, we retrofitted the first boiler	1.	MR. BAUGHMAN: Yes, sir.
with a Hawk ICS to get the initial variance. Okay.	2.	MR. ROBINSON: Question for you. But
And then we had a 60-year-old boiler that failed and	3.	it's still let me know if I'm in left field. The
replaced that with the 500-horsepower. And that's	4.	hardwire mandatory manual resets are still going to
the control system that was on the 500-horsepower.	5.	lock out as they should and override the system.
MR. BAUGHMAN: What failed on that	6.	MR. BAUGHMAN: As far as I know.
boiler, by the way?	7.	MR. ROBINSON: Is that a correct
MR. CHOINIERE: The plate. The tube	8.	statement? The question sir, the question is:
plate. It was just old and deteriorated. Every	9.	Dave Mr. Baughman pointed out that you have the
time you fixed the tube plate or the tubes and fired	10.	ability to remotely reset the mandatory shutoff
it back up, you developed another leak. So we're	11.	mechanisms for the boiler, such as manual reset,
chasing the whack-a-mole.	12.	high limit pressure switch, things like that.
MR. BAUGHMAN: How are we doing	13.	MR. CHOINIERE: No, they're I'm
	14.	sorry.
	15.	MR. BAUGHMAN: No. That's not I'm
-	16.	sorry.
-	17.	MR. CHOINIERE: It's just the remote
connection.	18.	shutdown.
MR. BAUGHMAN: Hardwired connection.		MR. BAUGHMAN: What I was saying,
		just to clarify, was it's got the capabilities of
3000 in here.		doing a remote setpoint change, not a remote reset.
		MR. ROBINSON: Okay. Well, when you
		say "setpoint," are you talking
		MR. BAUGHMAN: Steam pressure.
		MR. ROBINSON: manual reset
	1-2.	
	Boiler Number 2 does. It does show a higher output, but it shows a lower input.  So just from a technical standpoint, some figures aren't quite correct in the nomenclature on it. So  CHAIRMAN MORELOCK: So do you just want to verify your  MR. NEVILLE: I will verify those numbers.  CHAIRMAN MORELOCK: existing boiler information?  MR. NEVILLE: Yes.  CHAIRMAN MORELOCK: Okay.  MR. BAUGHMAN: So that being said, now I'm a little confused on the control system, because we said the one that has been recently installed is the 2010, and it has the old Hawk ICS.  Boiler Number 1 has the Hawk 3000.  Is that all correct information or is it just reversed?  MR. CHOINIERE: That's correct.  That's correct. Now, assuming because we  Page installed the Hawk, we retrofitted the first boiler with a Hawk ICS to get the initial variance. Okay.  And then we had a 60-year-old boiler that failed and replaced that with the 500-horsepower. And that's the control system that was on the 500-horsepower.  MR. BAUGHMAN: What failed on that boiler, by the way?  MR. CHOINIERE: The plate. The tube plate. It was just old and deteriorated. Every time you fixed the tube plate or the tubes and fired it back up, you developed another leak. So we're chasing the whack-a-mole.  MR. BAUGHMAN: How are we doing monitoring via what kind of connection? Are we doing it via computer? Web-based? What are we how are we monitoring  MR. NEVILLE: It's a hardwired connection.  Okay. I see the equipment description for the Hawk	Boiler Number 2 does. It does show a higher output, but it shows a lower input.  So just from a technical standpoint, some figures aren't quite correct in the nomenclature on it. So CHAIRMAN MORELOCK: So do you just want to verify your MR. NEVILLE: I will verify those numbers.  CHAIRMAN MORELOCK: existing boiler information?  MR. NEVILLE: Yes. CHAIRMAN MORELOCK: Okay. MR. BAUGHMAN: So that being said, now I'm a little confused on the control system, because we said the one that has been recently installed is the 2010, and it has the old Hawk ICS. Boiler Number 1 has the Hawk 3000.  Is that all correct information or is it just reversed?  MR. CHOINIERE: That's correct.  That's correct. Now, assuming because we  Page 50  installed the Hawk, we retrofitted the first boiler with a Hawk ICS to get the initial variance. Okay. And then we had a 60-year-old boiler that failed and replaced that with the 500-horsepower. And that's the control system that was on the 500-horsepower.  MR. BAUGHMAN: What failed on that boiler, by the way? MR. CHOINIERE: The plate. The tube plate. It was just old and deteriorated. Every time you fixed the tube plate or the tubes and fired it back up, you developed another leak. So we're chasing the whack-a-mole.  MR. BAUGHMAN: How are we doing monitoring via what kind of connection? Are we doing it via computer? Web-based? What are we how are we monitoring MR. NEVILLE: It's a hardwired connection.  MR. BAUGHMAN: Hardwired connection.  Okay. I see the equipment description for the Hawk 3000 in here.  MR. BAUGHMAN: Hon on the Hawk 20. 3000 in here.  MR. BAUGHMAN: Id on ot see the equipment description for the Hawk 3000 in here.  21.  MR. NEVILLE: Yes. MR. BAUGHMAN: Id on ot see the equipment description for the Hawk 3000 in here.

		Page 53			Page 5
1.	MR. BAUGHMAN: Just steam pressure.		1.	count a garage door	
2.	A remote setpoint change of the steam pressure		2.	MR. BAUGHMAN: That's correct.	
3.	itself.		3.	MR. CHAPMAN: or a roll-up door.	
4.	MR. ROBINSON: So the lockouts are		4.	MR. BAUGHMAN: Okay.	
5.	untouchable?		5.	MR. CHAPMAN: They do not count that,	
6.	MR. CHOINIERE: Correct.		6.	because that's not a main egress.	
7.	MR. ROBINSON: I'm sorry. Thank you.		7.	MR. BAUGHMAN: So I'm just bringing	
8.	CHAIRMAN MORELOCK: Okay.		8.	that up in as much as the boiler room itself needs	
9.	MR. BAUGHMAN: One other question		9.	to be addressed from the standpoint of another	
0.	that I've got and thank you for taking the time		10.	manual door needed for a point of egress. And then	
1.	again is on E-1 under the boiler room itself.		11.	there should be an e-stop at each door	
2.	I'm looking at I show one door opening in front		12.	MR. CHAPMAN: Yes.	
3.	of Boiler Number 2. Is that correct? To the		13.	MR. BAUGHMAN: at a point of	
4.	right-hand side?		14.	egress.	
5.	MR. CHOINIERE: So are you talking		15.	MR. CHAPMAN: Correct.	
6.	about at the top of the picture or at the bottom of		16.	MR. BAUGHMAN: So when you hit a	
7.	the picture?		17.	manual reset button, does it shut off both boilers?	
8.	MR. BAUGHMAN: No. I'm talking about		18.	MR. CHOINIERE: Only one boiler's	
9.	virtually in the middle of the picture		19.	operational at a time. But yeah, when you hit the	
20.	MR. NEVILLE: Yes.		20.	e-stop, it shuts off either one that's operating.	
21.	MR. BAUGHMAN: right there where		21.	MR. BAUGHMAN: Let's say just by	
22.	it says, "eight-inch steam."		22.	chance both boilers happen to be on, you're	
23.	MR. CHOINIERE: Oh, okay. That's		23.	warming	
	•		24.	-	
24.	good. Okay. So right. Yes. That's the manual			MR. CHOINIERE: Yes.	
25.	access door to the area.		25.	MR. BAUGHMAN: one boiler up	
		Page 54			Page 5
1.	MR. BAUGHMAN: Okay. This boiler		1.	MR. CHOINIERE: It'll stop both	
2.	room having a 500 and a 600-horsepower boiler		2.	boilers.	
3.	does it not require two doors, Mr. Chapman or		3.	MR. BAUGHMAN: It'll stop both	
4.	Mr. Robinson?		4.	boilers.	
5.	Being that this boiler room has a 5		5.	MR. CHOINIERE: Yes, sir. Yes.	
6.	and a 600-horse boiler in it, does it not require		6.	MR. BAUGHMAN: Okay. Is that	
7.	two doors?		7.	identified in here	
8.	MR. CHAPMAN: Yes.		8.	MR. CHOINIERE: I don't know.	
9.	MR. ROBINSON: Yes, sir.		9.	MR. BAUGHMAN: to where it says it	
و. 10.				shuts off both boilers?	
	MR. BAUGHMAN: Okay. We're showing		10.		
11.	one door in this boiler room, and actually need to		11.	MR. NEVILLE: It is not, but we can	
2.	have two doors for egress.		12.	add that to the	
3.	MR. BOWERS: Does a garage door		13.	MR. BAUGHMAN: Okay. Because when	
	49		14.	they check, that's one thing they'll be checking for	
14.	count?			is that it shuts both boilers off.	
14. 15.	MR. PISCHKE: Are these garage doors?		15.		
4. 5. 6.	MR. PISCHKE: Are these garage doors? MR. NEVILLE: Those are garage doors.		16.	MR. ROBINSON: So don't be confused	
4. 5. 6.	MR. PISCHKE: Are these garage doors? MR. NEVILLE: Those are garage doors. MR. CHOINIERE: Yeah, they're yes.		16. 17.	with that. The monitoring station	
<ul><li>4.</li><li>5.</li><li>6.</li><li>7.</li><li>8.</li></ul>	MR. PISCHKE: Are these garage doors? MR. NEVILLE: Those are garage doors. MR. CHOINIERE: Yeah, they're yes. CHAIRMAN MORELOCK: So you it's		16. 17. 18.	with that. The monitoring station MR. NEVILLE: Right.	
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14. 15. 16. 17. 18. 19. 20. 21. 222. 223.	MR. PISCHKE: Are these garage doors? MR. NEVILLE: Those are garage doors. MR. CHOINIERE: Yeah, they're yes. CHAIRMAN MORELOCK: So you it's three doors out of that place. MR. CHOINIERE: Yes. MR. BOWERS: These are garage doors here. MR. BAUGHMAN: Well, let's say we've		16. 17. 18. 19. 20. 21. 22. 23.	with that. The monitoring station MR. NEVILLE: Right. MR. ROBINSON: is independent for each boiler. The monitoring station. MR. CHOINIERE: Right. MR. ROBINSON: But at the points of egress, both boilers are to be shut off.	

	Page	. 57		Page 59
1.	MR. ROBINSON: With one button.	1.	MR. BAUGHMAN: job descriptions,	Tage 37
2.	MR. CHOINIERE: Okay.	2.	and in it, in a number of them, under knitting	
3.	MR. ROBINSON: Okay?	3.	supervisor, it says the same thing	
4.	MR. NEVILLE: What I'd like to do is	4.	MR. NEVILLE: Yes.	
5.	add that to Appendix B as far as the equipment	5.	MR. BAUGHMAN: trained and	
6.	description as far as the emergency shutoffs at	6.	qualified in boiler operations.	
7.	the exit doors. And do you think I assume that's	7.	Or is it trained and qualified to the	
8.	the most appropriate place to put that information.	8.	boiler remote variance?	
9.	Is that	9.	MR. NEVILLE: Right. There's it	
10.	MR. ROBINSON: I have no argument.	10.	should list two different so this is G-3, for	
11.	MR. NEVILLE: Okay.	11.	example, under required education and training.	
12.	MR. BAUGHMAN: Yeah.	12.	So you have training annually to the	
13.	CHAIRMAN MORELOCK: Okay.	13.	systems operation manual, but there's additional	
14.	MR. BAUGHMAN: So who is in charge of	14.	training that the facility trains to qualify	
1	_		individuals as a boiler operator that they do	
15. 16.	training and qualifying the boiler operators?  MR. CHOINIERE: The maintenance	15. 16.	internally.	
1			•	
17. 18.	manager.  MR. BAUGHMAN: The maintenance	17.	MR. BAUGHMAN: Super. MR. NEVILLE: So you know, there's	
1		18.	•	
19. 20.	manager.  MR. CHOINIERE: Right.	19. 20.	two levels there. So	
1	e e e e e e e e e e e e e e e e e e e		MR. BAUGHMAN: Okay. Thank you.	
21.	MR. BAUGHMAN: And what are his	21.	CHAIRMAN MORELOCK: Okay. Yes?	
22.	qualifications?	22.	MR. HARGROVE: As a follow-up, with	
23.	MR. CHOINIERE: I don't know. Do	23.	regard to the remote access for the setpoint, what	
24.	they spell it out in this?	24.	individuals have security access to that or could	
25.	MR. NEVILLE: Let's see.	25.	actually perform that in terms of authentication for	
1				
	Раде	- 58		Page 60
1	Page MR CHOINIERE: Is there some		that?	Page 60
1.	MR. CHOINIERE: Is there some	1.	that?  MR_NEVILLE: That is a feature of	Page 60
2.	MR. CHOINIERE: Is there some certification that you're interested in? I'm not	1. 2.	MR. NEVILLE: That is a feature of	Page 60
2. 3.	MR. CHOINIERE: Is there some certification that you're interested in? I'm not MR. BAUGHMAN: No. It just says that	1. 2. 3.	MR. NEVILLE: That is a feature of the Hawk 3000 system. That doesn't necessarily I	Page 60
2. 3. 4.	MR. CHOINIERE: Is there some certification that you're interested in? I'm not MR. BAUGHMAN: No. It just says that under the job descriptions, especially under dye	1. 2. 3. 4.	MR. NEVILLE: That is a feature of the Hawk 3000 system. That doesn't necessarily I do not believe the facility has wired that to have	Page 60
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	Page 61	1	Page 63
1.	MR. NEVILLE: So	1.	MR. NEVILLE: Correct.
2.	CHAIRMAN MORELOCK: And just for the	2.	CHAIRMAN MORELOCK: Just a comment.
3.	sake of clarity, if they were to make that change,	3.	That's all that I have.
4.	that would be a technical change to the manual. It	4.	Any other questions or comments?
5.	would have to come back to the board for approval.	5.	Okay. Hearing none, do I have a motion for
6.	MR. HARGROVE: Okay.	6.	contingent approval of this variance based upon
7.	MR. NEVILLE: Yes.	7.	corrections to the manual per Tennessee Board
8.	CHAIRMAN MORELOCK: Okay?	8.	comments and a successful site visit by the chief
9.	MR. HARGROVE: Thank you.	9.	inspector?
10.	CHAIRMAN MORELOCK: Any other	10.	MR. HARGROVE: Motion for approval.
11.	questions or comments? Okay. I just have a few.	11.	CHAIRMAN MORELOCK: Do I have a
12.	One being in your organizational	12.	second?
13.	chart you do need to label on your org chart	13.	MR. PISCHKE: Second.
14.	who is serving as remote monitoring personnel and	14.	CHAIRMAN MORELOCK: Last call for
15.	boiler attendants.	15.	questions or comments. Okay. I'm going to call the
16.	MR. NEVILLE: Okay.	16.	question, all in favor, say, "aye."
17.	CHAIRMAN MORELOCK: On Page 8 if I	17.	MR. PISCHKE: Aye.
18.	can get there. On Page 8, where you talk about	18.	MR. HARGROVE: Aye.
19.	it's under normal daily duties under Item 2, the	19.	MR. FOX: Aye.
20.	same statement I made for the previous review is	20.	MR. BAUGHMAN: Aye.
21.	that if the system is not functioning properly, a	21.	CHAIRMAN MORELOCK: Opposed?
22.	boiler attendant shall attend the boiler until the	22.	Abstentions? Mr. Bowers, you'll be a not voting,
23.	problem is corrected.	23.	correct?
24.	But I would request that you put per	24.	MR. BOWERS: Correct.
25.	0800-03-0308(11) so that you would revert back	25.	CHAIRMAN MORELOCK: Since you have a
			·
	Page 62		Page 64
1.	Page 62 to the 20-minute rule until you can get the remote	1.	Page 64 conflict. So we have one not voting.
1. 2.	_	1. 2.	-
1	to the 20-minute rule until you can get the remote	1	conflict. So we have one not voting.
2.	to the 20-minute rule until you can get the remote system functioning properly.	2.	conflict. So we have one not voting.  And gentlemen, you have a
2. 3.	to the 20-minute rule until you can get the remote system functioning properly.  MR. NEVILLE: We will add that.	2. 3.	conflict. So we have one not voting.  And gentlemen, you have a contingently approved variance.
2. 3. 4.	to the 20-minute rule until you can get the remote system functioning properly.  MR. NEVILLE: We will add that.  CHAIRMAN MORELOCK: Okay. Let's see.	2. 3. 4.	conflict. So we have one not voting.  And gentlemen, you have a contingently approved variance.  MR. NEVILLE: Thank you.
2. 3. 4. 5.	to the 20-minute rule until you can get the remote system functioning properly.  MR. NEVILLE: We will add that.  CHAIRMAN MORELOCK: Okay. Let's see.  Page on Page 10, your emergency procedure, Item 5	2. 3. 4. 5.	conflict. So we have one not voting.  And gentlemen, you have a contingently approved variance.  MR. NEVILLE: Thank you.  MR. CHOINIERE: Thank you.
2. 3. 4. 5. 6.	to the 20-minute rule until you can get the remote system functioning properly.  MR. NEVILLE: We will add that.  CHAIRMAN MORELOCK: Okay. Let's see.  Page on Page 10, your emergency procedure, Item 5 says, repeat Items 2 through 5 until	2. 3. 4. 5. 6.	conflict. So we have one not voting.  And gentlemen, you have a contingently approved variance.  MR. NEVILLE: Thank you.  MR. CHOINIERE: Thank you.  CHAIRMAN MORELOCK: Okay. Our next
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		Page 65		Page 6
1.	CHAIRMAN MORELOCK: Okay.	Tuge 03	1.	to put our operating manuals in the exact format
2.	MR. BAILEY: Any conflicts?		2.	of the checklist. That way it would be easier for
3.	CHAIRMAN MORELOCK: Are there any		3.	all of us to understand.
4.	conflicts? There's none, so proceed.		4.	And operating procedures that have to
5.	MR. HAYS: Thank you. So BASF's		5.	fit into the BASF normal corporate format for
6.	requesting a variance for two boilers located at the		6.	procedures, that sort of thing we just included
7.	32 Lost Mound Drive facility in Chattanooga, known		7.	them so we can meet our requirements and hopefully
8.	as the Amnicola Highway plant.		8.	we meet your requirements.
9.	The boilers are part of a chemical		9.	We brought Carlos with us. There
10.	manufacturing process. We produce		10.	were some questions about our control system, burn
11.	styrene-butadiene, polymer dispersions for use in		11.	management, and that sort of thing last time. We
12.	adhesives in phones and asphalt modifiers.		12.	thought that he's a designer and helped us
13.	In addition to these boilers, we		13.	implement the control system, and I thought, well,
14.	operate 123 other pressure vessels on site. A lot		14.	he can help answer questions, or if there issues,
15.	of our processes are covered by are governed by		15.	changes that need to be made, we can work out an
16.	OSHA PSM and EPA RMP standards.		16.	acceptable solution a little easier with Carlos on
17.	Our facility has is divided into		17.	board.
18.	six production units. We have a continuous		18.	So if you folks have any questions,
19.	process from raw material to finished product, and		19.	we'll try to answer them.
20.	our utilities, Area 1600 is where the boilers,		20.	CHAIRMAN MORELOCK: Okay. Do I have
21.	deaerator, air compressors, and that sort of thing		21.	a motion for discussion?
22.	are located.		22.	MR. BOWERS: Motion.
23.	Our main control room where remote		23.	CHAIRMAN MORELOCK: Motion. Second?
24.	monitoring would take place is in the middle of		24.	MR. FOX: Second.
25.	the plant. It's centrally located. And our		25.	CHAIRMAN MORELOCK: Second? Okay.
	and planta 100 contains, 100 and 1 and 1 and		-0.	emmana menazeem second emy.
		Page 66		Page 6
1.	control rooms are attended 24/7 by either a team		1.	The floor is open. Mr. Bowers?
2.	leader or one of the other area operators. And		2.	MR. BOWERS: Oh, okay.
3.	operators make adjustments from the process to		3.	CHAIRMAN MORELOCK: He jumped the gun
4.	process from the field or from control room DCS		4.	on you.
5.	consoles. We don't really have a console operator		5.	MR. BOWERS: Well, the main problem I
6.	that's a catch-all operator. Our field operators		6.	had last time, at the last meeting was you really
7.	work both ways.		7.	didn't have you didn't really have any
8.	So remote monitoring personnel for us		8.	description of the boilers. And I see we have made
9.	would be either fellow operators and team leaders		9.	a good process here. At least we have the National
10.	that are assigned to a production shift or a it		10.	Board numbers, the Tennessee numbers of the boilers,
11.	may be an actual boiler operator. So we may have		11.	description of the boilers, whereas last time, we
12.	three or four qualified operators on a shift or we		12.	really you had a good presentation of your
13.	may just have one, but it is a rule that we have		13.	equipment as far as your control equipment, but you
14.	to have one to operate the plant.		14.	had nothing really on the boilers themselves.
15.	So all our operators are in a two-way		15.	So I see that you made the change in
16.	radio communication. Radios communicate through a	ı	16.	that and you did a good job.
17.	repeater and or we have direct radio-to-radio		17.	MR. HAYS: Thank you.
18.	capability, plant-wide intercom systems, and that		18.	MS. DAVIS: We tried very hard to
19.	sort of thing to communicate between all the folks		19.	include what we thought you might need.
20.	involved in operating the boilers.		20.	MR. HAYS: Yeah. We may have gone
	So most of you have seen us before in		21.	overboard in some cases, but
21.	the last meeting, and we had serious issues with		22.	CHAIRMAN MORELOCK: Yes, you did.
	the last meeting, and we had serious issues with		23.	MR. HARGROVE: So my apologies for an
21.	our application. And so we're going to try to do			• • •
21. 22.			24.	absence at the last meeting.

	Page 69		Page 71
1.	primary responsibilities with regard to the	1.	folders, you know, full of papers on these things
2.	requests that you're asking and the role that	2.	for maintenance records. We did bring some examples
3.	you've played with respect to the boilers?	3.	of what some of our maintenance programs look
4.	MR. HAYS: Well, in the way this came	4.	like
5.	about for us, we're a BASF is a big corporation	5.	MR. HARGROVE: Right.
6.	but we're a small site within the company. So folks	6.	MR. HAYS: if you'd like to see
7.	at our site that are in the engineering functions	7.	them. We use SAP for a maintenance management
8.	and maintenance functions and that sort of thing	8.	system, so we asked our maintenance manager, hey,
9.	we have to wear a lot of hats.	9.	give us screenshot examples from SAP in case you
10.	And at one point in time, I was	10.	guys ask for it of the type of maintenance we
11.	involved in managing small capital projects. And	11.	perform. So showing the annual mechanical PM
12.	one of my projects was a NFPA compliance project,	12.	when it comes out, annual I&E PM; relief valves are
13.	and I would be involved in any control system	13.	a separate PM, that sort of thing.
14.	upgrades on any for any of our processes at the	14.	And we as far as the challenges,
15.	plants. So I&E is my specialty at our site.	15.	you know, for keeping old boilers like that
16.	So I'm not necessarily a boiler	16.	MR. HARGROVE: Right.
17.	expert, but as we do these projects, we try to	17.	MR. HAYS: in good shape, they
18.	learn the codes and learn what's required,	18.	have had these have had two repairs, I believe
19.	manage you know, coordinate the change	19.	MR. HARGROVE: Two repairs? Okay.
20.	management process at our site, and get all the	20.	MR. HAYS: over the years. We
21.	right people involved and that sort of thing. So	21.	but they're in you know, they're normally in good
22.	being a knowledgeable person, that's sort of how	22.	shape. They're opened up and inspected. Our
23.	we ended up here. So I work for the engineering	23.	inspector considers them, you know, to be in good
24.	department.	24.	shape compared to a lot of them, you know, just from
25.	MS. DAVIS: And as a process	25.	conversations with him every time we open them up.
	Page 70		Page 72
1.	engineer, I mostly am responsible for coordinating	1.	And we really pay attention. This is another thing
2.	engineer, I mostly am responsible for coordinating our change management. So if we were issued a	2.	And we really pay attention. This is another thing that Brittany's involved in is our water
2. 3.	engineer, I mostly am responsible for coordinating our change management. So if we were issued a variance, I would have to get all the people	2. 3.	And we really pay attention. This is another thing that Brittany's involved in is our water treatment and that sort of thing.
2. 3. 4.	engineer, I mostly am responsible for coordinating our change management. So if we were issued a variance, I would have to get all the people involved.	2. 3. 4.	And we really pay attention. This is another thing that Brittany's involved in is our water treatment and that sort of thing.  So that as far as the challenge
2. 3. 4. 5.	engineer, I mostly am responsible for coordinating our change management. So if we were issued a variance, I would have to get all the people involved.  We actually have a sample of our	2. 3. 4. 5.	And we really pay attention. This is another thing that Brittany's involved in is our water treatment and that sort of thing.  So that as far as the challenge the challenge might be to keep the water treatment
2. 3. 4. 5. 6.	engineer, I mostly am responsible for coordinating our change management. So if we were issued a variance, I would have to get all the people involved.  We actually have a sample of our change management form, and I would be responsible	2. 3. 4. 5. 6.	And we really pay attention. This is another thing that Brittany's involved in is our water treatment and that sort of thing.  So that as far as the challenge the challenge might be to keep the water treatment and that sort of thing up to snuff to keep these
2. 3. 4. 5. 6. 7.	engineer, I mostly am responsible for coordinating our change management. So if we were issued a variance, I would have to get all the people involved.  We actually have a sample of our change management form, and I would be responsible for training all the operators, getting all the	2. 3. 4. 5. 6. 7.	And we really pay attention. This is another thing that Brittany's involved in is our water treatment and that sort of thing.  So that as far as the challenge the challenge might be to keep the water treatment and that sort of thing up to snuff to keep these things healthy. You know.
2. 3. 4. 5. 6. 7. 8.	engineer, I mostly am responsible for coordinating our change management. So if we were issued a variance, I would have to get all the people involved.  We actually have a sample of our change management form, and I would be responsible for training all the operators, getting all the appropriate personnel involved, and doing some	2. 3. 4. 5. 6. 7. 8.	And we really pay attention. This is another thing that Brittany's involved in is our water treatment and that sort of thing.  So that as far as the challenge the challenge might be to keep the water treatment and that sort of thing up to snuff to keep these things healthy. You know.  MR. HARGROVE: So is Arise the
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	Page 73			Page 75
1.	ourselves; we hire experts to treat our water for	1.	that the boilers come down.	rage 73
2.	deaerators and internal for the boilers. So they	2.	But what was the issue with it that	
3.	really do a good job keeping things nice and clean.	3.	caused its replacement?	
4.	MR. HARGROVE: All right. Thank you.	4.	MR. HAYS: I couldn't say. I have no	
5.	CHAIRMAN MORELOCK: Any other	5.	idea what	
6.	questions or comments?	6.	MR. BAUGHMAN: Okay. That's all	
7.	MR. BAUGHMAN: Yes.	7.	right.	
8.	CHAIRMAN MORELOCK: Okay.	8.	MR. HAYS: There's	
9.	MR. BAUGHMAN: So when you go through	9.	MR. BAUGHMAN: And it's just more of	
10.	the inspection, Mr. Alexander's there. Are you	10.	a question than anything, so that's okay.	
11.	inspecting one boiler at a time or are both boilers	11.	MR. HAYS: Yeah, the deaerator I	
12.	down?	12.	don't know. I don't even know any information about	
13.	MR. HAYS: Both boilers are down.	13.	the size of it. It may have been poorly sized or	
14.	MR. BAUGHMAN: Both boilers come	14.	I'm not even sure it failed.	
15.	down?	15.	MR. BAUGHMAN: Okay.	
16.	MR. HAYS: That's normally done. The	16.	MR. HAYS: You know. So	
17.	way we do our major outages is we have a fall outage	17.	MR. BAUGHMAN: Sure. During the	
18.	that we like to when you stop everything moving	18.	operation of the boilers, is the feedwater do the	
19.	in all the pipes, we would like to get that done	19.	feedwater pumps run continuously in this system? I	
20.	before it gets too cold, and that's a good time of	20.	know I'm looking at the other manual they did.	
21.	year to do it. So we'll shut down for about four	21.	MR. HAYS: Yes.	
22.	weeks during our fall outage. We have to have steam	22.	MR. BAUGHMAN: So these run	
23.	in order to safely remove other chemicals from the	23.	continuous.	
24.	plant.	24.	MR. HAYS: Yes.	
25.	So after everything is completely	25.	MR. BAUGHMAN: So if there's an	
	Page 74			Page 76
1.	taken out of service, we can bring the boilers	1.	e-stop that gets hit, it does not turn off the DA;	C
2.	down, both of them, cool them off. Open them,	2.	it just turns off the boiler that's an alarm.	
3.	steam drums, mud drums, level chambers,	3.	MR. HAYS: That's yeah. That's	
4.	interconnecting piping, and that sort of thing.	4.	correct. The deaerator pumps would well, in case	
5.	Steve climbs up there, and you know, actually	5.	you closed all the feedwater valves and that sort of	
6.	inspects all that stuff.	6.	thing, there's a bypass that keeps them, you know,	
7.	MR. BAUGHMAN: One a couple of	7.	above their minimum flow and that sort of thing, so	
8.	questions. It says the steam under the	8.	we're not actually dead-heading the pump. But they	
9.	description of system being monitored, it says the	9.	do circulate full-time.	
10.	steam goes directly into a 150-pound system.	10.	MR. BAUGHMAN: Well, and my concern	
11.	Under the boiler descriptions,	11.	is that when you it depends on where your e-stop	
12.	though, it doesn't say what the boilers are	12.	is tied in on the system. It doesn't necessarily	
13.	operating at. It gives a design pressure of 250,	13.	turn off the modulating feedwater valve, and if the	
14.	but what are the boilers actually operating at?	14.	modulating feedwater valve doesn't have a	
15.	MR. HAYS: The normal setpoint for	15.	spring-to-close mechanism, that that feedwater valve	
16.	the header is 150.	16.	stays open. The pumps are running continuous, and	
17.	MR. BAUGHMAN: Okay.	17.	you can actually continue to feed water to the	
18.	MR. HAYS: When we have both boilers	18.	boilers themselves even though they've been shut	
19.	in line, they may be operating at 155, 158,	19.	off.	
20.	something like that.	20.	So within the electrical system, it's	
21.	MR. BAUGHMAN: Okay. One question	21.	worth taking a look at to see when you turn the	
22.	that comes up to mind is, what was the issue with	22.	boiler off in an emergency shutoff, does your	
23.	the DA tank? Since it's a 1996, and I'm taking it	23.	feedwater modulating feedwater valve go closed,	
24.	that it's been replaced, since the boilers are '71s.  The DA gots inspected at the same time. I take it	24.	because you aren't turning off the pump. It's	
25.	The DA gets inspected at the same time, I take it,	25.	running continuous and it's on a different	
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		Page 77			Page 79
1.	electrical system. So you've got the possibility	Ü	1.	maintenance on. So	υ
2.	of continually feeding water into the boiler,		2.	MS. DAVIS: And we actually have the	
3.	which could then feed water into the header, which		3.	relief valve calculations in the Appendix if you're	
4.	is going to cause you other issues along the way.		4.	interested.	
5.	MR. HAYS: Right.		5.	MR. BAUGHMAN: I saw those	
6.	MR. BAUGHMAN: Just an operational		6.	calculations in there. And that brought to mind,	
7.	thing just to give consideration of.		7.	how are the relief valves actually being tested	
8.	MR. HAYS: Well, and that's		8.	operational-wise in the field?	
9.	interesting. At least and I don't I'm not as		9.	MR. HAYS: They're removed and sent	
10.	familiar with the Polymer Drive boilers, exactly how		10.	to the valve shop for certification. And then we	
11.	their valves are set up, but the feedwater valves at		11.	get the proper documentation back on	
12.	Amnicola are actually they're fail-open valves,		12.	MR. BAUGHMAN: And that's on	
13.	and I believe that the thought was that if we had a		13.	MR. HAYS: on the annual PN.	
14.	failure, a loss of plant air, or something like		14.	MR. BAUGHMAN: Excuse me, I'm sorry.	
15.	that, we wouldn't starve a boiler; we would rather		15.	MR. HAYS: On the during the	
16.	cause a high-level.		16.	annual PN.	
17.	MR. BAUGHMAN: Sure.		17.	MR. BAUGHMAN: And that's on the DA	
18.	MR. HAYS: But we could look into		18.	tank, also?	
19.	what are we doing exactly with that feedwater valve		19.	MR. HAYS: Let me the DA tank	
20.	in an emergency situation.		20.	could possibly be on a different frequency. I'll	
21.	MR. BAUGHMAN: You bet. Well, being		21.	have to look. I would have to look to confirm that.	
22.	that the boilers are rated 250, we've got relief		22.	CHAIRMAN MORELOCK: Well, it could	
23.	valves set up to 200 on the boilers; the DA is set		23.	since it's a pressure vessel. It's not a boiler.	
24.	to 50. We had an incident years ago on a modulating		24.	MR. HAYS: Yeah. So it	
25.	system where we had a failure of the DA itself, and		25.	CHAIRMAN MORELOCK: It'd be a	
23.	system where we had a famore of the D11 listen, and		23.	CHIMANIA WORLLOCK. Rube u	
		Page 78			Page 80
1.	the DA holds the same potential for problems, as far		1.	two-year internal	
2.	as a catastrophic failure, so we always like to try		2.	MR. HAYS: It may be a yeah.	
3.	to bring that into play. Even though it doesn't		3.	Yeah. Yeah. So I was I'm not sure about the	
4.	matter as far as your variance is concerned, it		4.	relief valves on those being removed just because we	
5.	definitely is worth looking at from an operational		5.	have the system down. I'm not sure. So we	
6.	standpoint just because we're all in this for		6.	MR. BAUGHMAN: Just as long as they	
7.	safety.		7.	are	
8.	MR. HAYS: Yeah. Even as a even		8.	MR. HAYS: Yeah.	
9.	if it was a checklist item or something like that to		9.	MR. BAUGHMAN: being removed and	
10.	cover during emergency situations, too.		10.	checked accordingly.	
11.	MR. BAUGHMAN: Absolutely.		11.	MR. HAYS: Yeah. We have yeah.	
12.	MR. HAYS: And train people on and		12.	Every every valve in the plant, and we've got a	
13.	that sort of thing, for sure.		13.	lot of them. You know. You can imagine with that	
14.	MR. BAUGHMAN: That's all I got.		14.	number of pressure vessels. So	
15.	MR. HAYS: We and as far as relief		15.	MR. BAUGHMAN: Thank you.	
16.	valves and that sort of thing, also you brought		16.	CHAIRMAN MORELOCK: Any other	
17.	those up we have all our relief valves in the		17.	comments? Mr. Pischke?	
18.	plant and their calculations and everything like		18.	MR. PISCHKE: I just had a question	
19.	that revalidated. It's a five-year revalidation		19.	on Page 6 of Section B, Description of Monitoring	
20.	MS. DAVIS: Right.		20.	Personnel, paragraph fourth paragraph down. It	
21.	MR. HAYS: for everything in the		21.	says, "If the team leader is required to leave the	
22.	plant, also. So they look at where, you know,		22.	control room, one of the remaining process	
23.	the what are the calculations, how were they		23.	technicians must stay to respond to alarms from all	
24.	made, and that sort of thing, every five years, as		24.	areas of the facility."	
25.	well as annual inspections and preventive		25.	How is this ensured? Is it like a	
	wen as annual inspections and preventive		L 23.	from 15 tims chisticut. 18 it like a	
25.					

	Page 8	1		Page 8
1.	procedure that's audited on a regular basis? How	1.	their boss would be calling and saying, where are	
2.	do you ensure that that happens?	2.	you people at? You know?	
3.	MR. HAYS: Well, the way this is	3.	MR. PISCHKE: Yeah. If it's a	
	and the team leader's desk their normal area	4.	fundamental part of their job, I mean, then, you	
ĺ.	where they sit is in the control room. They are not	5.	know, that ensures	
5.	necessarily the control room monitor. They have	6.	MS. DAVIS: Yes.	
7.	other functions, like permitting contractors. They	7.	MR. PISCHKE: Yeah.	
8.	may be answering the telephone for deliveries or	8.	MR. HAYS: Right. And if also,	
9.	that sort of thing, or attending a meeting.	9.	if, you know, a person is to even step out and down	
0.	So the normal operation in our	10.	the hall to talk to a production leader's you	
1.	plant and I don't have a procedure included in	11.	know, office is right outside the door of the	
2.	the manual	12.	control room, and that sort of the thing.	
3.	MR. PISCHKE: Sure.	13.	So we have audible buzzers, priority	
4.	MR. HAYS: that proves this, but	14.	lights, and if any alarm requires operator	
5.	our normal procedure is, you know, if the team	15.	intervention, priority one, two, three, it's going	
6.	leader has to leave for his production meeting,	16.	to be ringing a horn that can be heard throughout	
7.	he'll call an operator in and they just their	17.	the site. And there's a different tone for each	
8.	normal way of handling things is calling somebody on	18.	area. That sort of thing.	
9.	the radio, hey, can you come sit with the control	19.	MR. PISCHKE: Thank you.	
0.	room for the next 15 minutes, that sort of thing.	20.	CHAIRMAN MORELOCK: Any other	
1.	And they in practice every day,	21.	comments? Yes, Mr. Robinson.	
22.	you know, sometimes there would be an operator	22.	MR. ROBINSON: I have two editorial	
23.	stuck in the control room that would like to go to	23.	comments and one question. The first is on Page 4	
24.	his area and take care of some items, and he has	24.	for your valves, you have them listed as two I'm	
25.	to wait for the next person to show up so he can	25.	sorry, 11-2 by 21 by 2. You may have typos on all	
	Page 8	2		Page
1.	be relieved.	1.	of your pressure relief devices.	
2.	So they just kind of relay each other	2.	MS. DAVIS: I believe that was	
3.	in and out. And oftentimes, there's four or five	3.	actually how they are listed on the P&ID.	
4.	people in there.	4.	MR. ROBINSON: But then on your	
5.	MR. PISCHKE: Okay.	5.	polymer not to get off track. On your polymer	
6.	MR. HAYS: But as a minimum, you may	6.	manuals they're listed correctly.	
7.	have a team leader or a single operator. And that	7.	CHAIRMAN MORELOCK: So and you th	ink
8.	was one reason we kind of pointed out to because	8.	that's, like, 1 and 1/2 by 2 1/2 instead of 11?	
9.	our single operator is not going to be trained in	9.	MS. DAVIS: So if you look at the	
0.	every area, so we try to add the alarm priority	10.	P&ID that is attached in Section	
1.	lights, and that sort of thing, that we put in the	11.	MR. HAYS: Oh, yeah. I should have	
2.	manual to help those guys make a good decision of	12.	put a space in there.	
3.	what area to go to first in multiple alarms or alarm	13.	MS. DAVIS: 17	
4.	floods, and that sort of thing.	14.	MR. HAYS: That would have been	
5.	So to answer your question, I don't	15.	clearer. I see what you're saying. I'm sorry.	
6.	have it in a it's not an audited procedure or	16.	CHAIRMAN MORELOCK: Yeah.	
7.	anything that we drill for or anything like that.	17.	MR. ROBINSON: So are you okay with	
8.	MS. DAVIS: There is always somebody	18.	that?	
9.	in there, though. You will not go in there and find	19.	MR. HAYS: I should have put a space	
20.	an empty room. They know better.	20.	in there. That's a yeah, that's an inch and 1/2	
1.	MR. HAYS: It's the main area of the	21.	by 2 and 1/2.	
2.	plant.	22.	MR. HARGROVE: Right.	
	MR. PISCHKE: Right. Yeah. I	23.	MR. PISCHKE: Yeah.	
3.	guess	24.	MR. ROBINSON: You have the Boiler	
		1		0
23. 24. 25.	MR. HAYS: If they left it alone,	25.	Number 1, Boiler Number 2, and the deaerator. Okay	V ?

		Page 85			Page 8
1.	And then you've got a I'm not	C	1.	immediately to correct the situation. If no	Ü
2.	going to jump around. I'm going to go right to		2.	response, number two, from the utility technician,	
3.	the manual. The manuals calls on your recall		3.	notify the team leader that the boiler will be shut	
4.	list in Section G, it says to call first instead		4.	down from the control room.	
5.	of shutting the boiler down.		5.	If you don't get a response from	
6.	We would like to see the minute		6.	either of those two guys, then you shut the boiler	
7.	you get the alarm that tells us it should be		7.	down.	
8.	going into a fail-safe mode, which means that the		8.	MR. HAYS: And that	
9.	monitor is supposed to shut the boiler down; then		9.	MR. ROBINSON: When the boiler goes	
0.	he gets into recall mode. Yours is just the		10.	into high steam, the alarm goes off, monitor shuts	
1.	reverse.		11.	the boiler down.	
2.	When a boiler goes into fail-safe,		12.	MR. HAYS: For high well, we we	
3.	you start to make calls. And then if you don't		13.	have a transmitter on there, so we have before	
4.	get an answer, then you put the boiler in		14.	before the boiler so we have pressure monitoring	
5.	fail-safe. That's valuable time.		15.	on the drums and we have pressure monitoring on the	;
6.	MR. HAYS: In the case of high steam		16.	header	
7.	pressure, low water level, low air flow, and that		17.	MR. ROBINSON: Yes, sir.	
8.	sort of thing, those yeah, those do shut the		18.	MR. HAYS: also. So we have	
9.	boiler down. High water level, at this time		19.	alarms that are that come along before a	
0.	doesn't doesn't actually shut the boiler down.		20.	deviation from pressure setpoint. We have high drum	l
1. 2.	MR. ROBINSON: That's correct.		21.	pressure that is before we would shut the boiler	
2. 3.	MR. HAYS: So should we clarify MR. ROBINSON: Chief and I talked		22.	down and way below the relief valve setting just to	
3. 4.	about that.		23. 24.	let the folks know, hey, you're you may need to vent, or maybe a bunch of users closed valves.	
<del>1</del> . 5.	MR. HAYS: Yeah.		2 <del>4</del> . 25.	So in this case, a high steam	
٥.	MR. nais. iean.		23.	50 in this case, a night steam	
		Page 86			Page 8
1.	MR. ROBINSON: But like, in the case		1.	pressure alarm some of them don't shut the	
2.	of low water, you go into an alarm situation. Your		2.	boiler down. We have a I can look and see what	
3.	monitor should safety the boiler.		3.	the set points are in here, but the we have	
4.	In reality, the boiler's going to be		4.	other alarms for steam pressure and the header and	
5.	safetied by its hard mechanisms. But the fact		5.	that sort of thing	
6.	that you're on a four-hour rule means that someone		6.	MR. ROBINSON: I follow what you're	
7.	couldn't it could go unnoticed. If it goes		7.	saying.	
8.	unnoticed, then the boiler could do whatever it		8.	MR. HAYS: ahead of time.	
9.	wanted to.		9.	MR. ROBINSON: Let me ask you this:	
0.	The monitor's job is to make sure the		10.	What we're accustomed to what we have been	
1.	boiler's secured. Then you make your phone calls,		11.	pursuing is on the hard manual resets.	
2.	you get your folks in there and investigate, find		12.	So if your boiler is set to shut off	
3.	out like we had the other one, and he says,		13.	at 150 psi, those are the ones that we're	
4.	okay. The boiler's at fail-safe and you do what's		14.	concerned about. Now, if you have if you	
5.	necessary.		15.	have	
6.	MR. HAYS: The so we should change		16.	MR. HAYS: Okay.	
7.	our language to the to say that the ones that		17.	MR. ROBINSON: such as if, for	
8.	should shut the boiler down		18.	example, if you're using your automatic low water	
9.	MR. ROBINSON: Yes, sir.		19.	cutoff mechanism and it cycles 24/7, all day long,	
).	MR. HAYS: verify that the		20.	never really shuts the boiler off, but it cycles	
1.	boiler's down or shut it down.		21.	as long as it's doing that and that means you're	
2.	MR. ROBINSON: Well, no. When the		22.	not really in a fail-safe position.	
3.	okay. For example, Section G: In the case of any		23.	And I hate to use that word "not	
4. -	boiler alarm let's take high steam pressure.		24.	really." You're not in a fail-safe position.	
5.	Number one, radio or page utility technician		25.	It's actually calling the pumps to send more	

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1.	water. With that said, if you drop below the		1.	we usually use for all these other things.	
2.	secondary manual reset, that's the one I want to		2.	When we have that type of alarm, we	
3.	see lock out. That's the one I want to see the		3.	do want them to follow this. We do want them to	
4.	monitor hear and react to it.		4.	let the operator know immediately so he can go see	
5.	MR. HAYS: And yes. In our case,		5.	what the deal is and that sort of thing. But as	
6.	where the remote monitoring station is, they have		6.	an emergency function, you don't want to see it	
7.	all the alarms for the boilers. But so you're		7.	there.	
8.	saying for the just so I'm clear, on our placard,		8.	MR. ROBINSON: Please.	
9.	our notice, for these we should only mention		9.	MR. BAUGHMAN: I've got a comment on	
10.	we shouldn't even mention ones that don't shut the		10.	the low water, because my thought process is that	
11.	boiler down. We should just		11.	you've got two low waters; a primary and a	
12.	MR. ROBINSON: The hard		12.	secondary. The secondary's the manual reset. But	
13.	MR. HAYS: We should only mention		13.	if the secondary happens to have failed and the	
14.	those. So we should		14.	primary's going off, even though it's not a hard	
15.	MR. ROBINSON: The manual resets, the		15.	reset, you want that boiler shut off.	
16.	one where you go into fail-safe condition and		16.	So low water's low water whether or	
17.	hopefully, I'm explaining that term correctly.		17.	not it's tripped, be it secondary or not. That's	
18.	Go ahead, please Mr. Bowers.		18.	the one reset where the one alarm that needs to	
19.	MR. BOWERS: I think what you're		19.	have attention to it on being able to lock the	
20.	saying some of these alarms are lower setting		20.	boiler out, even though it hasn't necessarily	
21.	alarms, just to warn you that you're getting into a		21.	tripped the secondary, the secondary may have	
22.	situation, right?		22.	failed and may not trip an alarm out.	
23.	MR. HAYS: Yeah.		23.	So it's important if, for one, the	
24.	MR. BOWERS: That means, like, if the		24.	alarm mechanism beyond the primary low water	
25.	boiler shuts down, for example, at 200, you might		25.	cutoff to be able to shut the boiler off,	
		Page 90			Page 92
1.	have an alarm going off at 180 saying, hey, we're		1.	whether or not it's locked it out on the manual	
2.	getting high.		2.	reset or not, I don't feel is	
3.	MR. HAYS: Yes.		3.	MR. ROBINSON: As long as you	
4.	MR. BOWERS: And I think that's		4.	hadn't went into automatic mode.	
5.	confusing on the manual. But maybe you shouldn't		5.	MR. BAUGHMAN: Yes. So if the boiler	
6.	list those alarms, because it really has nothing to		6.	goes down on low water, it should be attended to,	
7.	do with shutting the boiler down. That's more in		7.	whether or not it's tripped the manual reset or not.	
8.	your operation		8.	It's saying: I've got an issue.	
9.	MR. HAYS: Okay.		9.	MR. ROBINSON: You should get an	
10.	MR. BOWERS: than actually		10.	alarm.	
11.	shutting the boiler down.		11.	MR. HAYS: And these and we do.	
12.	MR. HAYS: Yeah.		12.	We do. We get alarms for all all three. One	
13.	MR. BOWERS: You're confusing we		13.	that	
14.	were talking about the alarms we're talking about		14.	MR. BAUGHMAN: You bet. But the	
15.	the alarms that are hardwired that have to do with		15.	primary is not a manual reset on the boiler itself.	
16.	the boiler. If you have production alarms that		16.	And so that's the only thing that, in an alarm	
17.	really don't have to do with shutting the boiler		17.	context, it's not going to trip to where you have to	
18.	down that's just giving you a warning, that's		18.	go back to the boiler room to reset it. It's just	
19.	secondary. Am I right?		19.	gone off. It's shut the boiler off. It may come	
20.	MR. HAYS: So you would not okay.		20.	back up. It may have been whatever mechanical issue	2
21.	Because our thought was that we would for		21.	caused it to go into low water, but it still needs	
22.	instance, we got one of those if we got one of		22.	to shut that boiler off through the e-stop at the	
23.	those alarms that was, you know, to let the operator		23.	remote station.	
24.	know you're heading you're heading outside of		24.	MR. HAYS: Yes. Our and I also	
25.	previously defined process limits, is the language		25.	wanted to mention ours are set up non-recycling. So	
	, , , , , , , , , , , , , , , , , , ,				
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l	Page	93		Page 95
1.	your primary or secondary, both of them	1.	MR. ROBINSON: The last question is	ruge
2.	MR. BAUGHMAN: Trip.	2.	that I'm sure the Chief is going to ask to verify	
3.	MR. HAYS: they trip the boiler.	3.	your training records when the audit for your	
4.	So you get a both of them trip and you have an	4.	variance is performed.	
5.	alarm ahead of that, and the level transmitter.	5.	Back in your Section G and it's	
6.	So you have analog alarms there for	6.	got your training records. I guess Terry Smith	
7.	water level through a transmitter of 0 to	7.	you guys had done the training but he didn't sign	
8.	100 percent, say, deviation alarming	8.	off on it.	
9.	MR. BAUGHMAN: Yeah. Fantastic.	9.	MS. DAVIS: He so his if you	
10.	MR. HAYS: and a and three	10.	turn to the next page let me find it.	
11.	I'm sorry three switches also. One, being a flow	11.	MR. ROBINSON: It's dated 7/29/17.	
12.	type, one being a probe type. The two of them shut	12.	MS. DAVIS: So if you where it	
13.	the boiler down.	13.	says, Page 3 of 3, his signature is there on 7/29.	
14.	And any of our on these particular	14.	MR. ROBINSON: And what about 4 of 4?	
15.	boilers, any of our master fuel trips, the	15.	MS. DAVIS: Where?	
16.	boiler's down, positively. It doesn't come back	16.	MR. ROBINSON: Four of 4.	
17.	up until it goes through a until the	17.	MS. DAVIS: I don't know why he	
18. 19.	condition's corrected and HRSG cycle, just like	18. 19.	didn't sign off right there. It's up here.	
19. 20.	a just like a normal startup happens.  MR. BAUGHMAN: You bet. I think the	20.	MR. ROBINSON: It was just editorial. MS. DAVIS: Right.	
21.	issue in within this notice, in case of any	21.	MR. ROBINSON: I'm sure that you	
22.	boiler alarm for, it just gives those few alarms	22.	but make sure that your training records are in	
23.	that are on there, and that needs to be somewhat be	23.	line, because	
23. 24.	separated and so forth on it. So	24.	MS. DAVIS: Right.	
25.	MR. HAYS: We can do that easily.	25.	MR. ROBINSON: right now, they're	
-0.	The state of the s		in it is a second of the secon	
	Page	94		Page 96
1.	MR. BAUGHMAN: It needs a little	1.	not.	
2.	massaging.	2.	MR. HAYS: In the case of	
3.	MR. ROBINSON: Yeah. Make it clear	3.	Terry Smith, he is a newer operator	
4.	that once those four items are dealt with that the	4.	MR. ROBINSON: Yes, sir.	
5.	monitor knows to shut the boiler down, and then make	5.	MR. HAYS: in that area. He's a	
6.	phone calls.	6.	team leader and he operates in several areas. So in	
7.	MR. HAYS: Right. Right. Yeah,	7.	some cases, they may have not he may have not	
8.	that and we will have to be clear about that	8.	signed it himself.	
9.	MR. ROBINSON: Or radios.	9.	What the operators can do, I mean,	
10.	MR. HAYS: because like I	10.	they have the option of not signing off and	
11.	mentioned on the low water, we have there are	11.	working under another operator, if they need to	
12.	several low water alarms that you could get. You	12.	for a longer period of time if they're not	
13.	can get low water from the transmitter. You can get	13.	comfortable.	
14.	low water from the switch that doesn't shut the	14.	MR. ROBINSON: I thought it was	
15. 16.	boiler down, and we also we're going to have to	15.	possibly editorial.	
16	be clear about that to MR. ROBINSON: Yes, sir.	16.	MR. HAYS: Yeah. So we'll	
	IVIK KUBUNNUN' YAC SIT	17. 18.	MS. DAVIS: I'm not exactly sure what happened there, but he did sign off on the it's a	
17.			nappened there, but he did sign off on the it's a	
17. 18.	MR. HAYS: so we don't confuse our	- 1	• •	
17. 18. 19.	MR. HAYS: so we don't confuse our control room operators. They get the first alarm	19.	repeat page for whatever reason on this, so	
17. 18. 19. 20.	MR. HAYS: so we don't confuse our control room operators. They get the first alarm that doesn't shut the boiler down, and then they go	19. 20.	repeat page for whatever reason on this, so MR. ROBINSON: Well, I went through	
17. 18. 19. 20. 21.	MR. HAYS: so we don't confuse our control room operators. They get the first alarm that doesn't shut the boiler down, and then they go knock it off line, you know, and they could upset	19. 20. 21.	repeat page for whatever reason on this, so MR. ROBINSON: Well, I went through your various manuals and tried to correlate them. I	
17. 18. 19. 20. 21.	MR. HAYS: so we don't confuse our control room operators. They get the first alarm that doesn't shut the boiler down, and then they go knock it off line, you know, and they could upset other processes that way.	19. 20. 21. 22.	repeat page for whatever reason on this, so MR. ROBINSON: Well, I went through your various manuals and tried to correlate them. I saw the 1603 for the emergency shutdown, 02, 04; I	
17. 18. 19. 20. 21. 22. 23.	MR. HAYS: so we don't confuse our control room operators. They get the first alarm that doesn't shut the boiler down, and then they go knock it off line, you know, and they could upset other processes that way.  MR. ROBINSON: Yeah.	19. 20. 21. 22. 23.	repeat page for whatever reason on this, so MR. ROBINSON: Well, I went through your various manuals and tried to correlate them. I saw the 1603 for the emergency shutdown, 02, 04; I checked them out.	
17. 18. 19. 20. 21. 22. 23. 24. 25.	MR. HAYS: so we don't confuse our control room operators. They get the first alarm that doesn't shut the boiler down, and then they go knock it off line, you know, and they could upset other processes that way.	19. 20. 21. 22.	repeat page for whatever reason on this, so MR. ROBINSON: Well, I went through your various manuals and tried to correlate them. I saw the 1603 for the emergency shutdown, 02, 04; I	her

	Page 97		Page 99
1.	questions or comments?	1.	MR. BAUGHMAN: Yes. For the
2.	MR. HARGROVE: Yeah, one last thing,	2.	calculations. The in other words, what I was
3.	Mr. Chairman. Our guest from Texas	3.	looking at was the information that is in here for
4.	MR. SANTOS: Yes.	4.	the DA was 2012, but the boilers are dated 2013, as
5.	MR. HARGROVE: What role did you	5.	far as the device review and approval. So I was
6.	contribute or are you here for total support or	6.	just kind of interested in that date.
7.	MR. SANTOS: Total support, yes.	7.	MR. HAYS: Some things that we do on
8.	MR. HARGROVE: Just support? Okay.	8.	five-year cycles (verbatim). A good example would
9.	MR. SANTOS: Also yes. I also	9.	be equipment grounding, that sort of thing we
10.	designed the system out of Houston and along with	10.	have to do on five-year cycles. We sometimes
11.	my mentor who had been working on boilers for 40	11.	schedule those sort of things to do one-fifth of
12.	years in his lifetime. He taught me, so I've	12.	them every year. So that's a possibility, but our
13.	carried that torch along now. I designed,	13.	five-year, three-year revalidations, and that sort
14.	implemented, and my team came and commissioned the	14.	of thing, can be staggered sometimes for
15.	burn management system for BASF Amnicola.	15.	calculations and that sort of thing.
16.	MR. HARGROVE: Okay. All right.	16.	MR. BAUGHMAN: Okay.
17.	Thank you, sir.	17.	MR. HAYS: Just to keep us from
18.	MR. SANTOS: Okay. Thank you.	18.	having to do the whole plant.
19.	MR. HAYS: And to go along with your	19.	MR. BAUGHMAN: Right. And I was
20.	question, also, it may be the appropriate time to	20.	trying to remember what you had said previously on
21.	discuss this, since we're kind of going to run both	21.	how often that was versus what the dates of this
22.	of these together.	22.	report actually showed.
23.	Our strategy, as a company, is to be	23.	MR. HAYS: Okay. So if you're
24.	a one-control system vendor site. It really helps	24.	looking at a relief valve calculation, that would be
25.	with maintenance and lifecycle management of	25.	different than what I thought we were discussing
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1.	products and that sort of thing. We get we do	1.	earlier was preventive maintenance where we actually
2.	a lot better job managing one control system type,	2.	pull the valves, send it to the valve shop
3.	and we can cross-train between plants and that	3.	(verbatim). It would not be that report.
4.	sort of thing.	4.	MR. BAUGHMAN: Okay.
5.	And our hope in the future, as we	5.	CHAIRMAN MORELOCK: Right.
6.	upgrade control systems at Polymer Drive that we	6.	MR. BAUGHMAN: Very good. Thank you.
7.	would is that we would use the same type of	7.	CHAIRMAN MORELOCK: Okay. Any other
8.	system, the same type of products, and be able to,	8.	comments? Okay. Do I have a motion to approve this
9.	you know, keep share spare parts, share	9.	variance contingent on the manual being revised per
10.	knowledge, share all that between the plants.	10.	board comments and a successful site visit by the
11.	So we also wanted if there were	11.	Chief Inspector?
12.	other questions, just the for how does Foxboro	12.	MR. BAUGHMAN: Mr. Chairman, are you
13.	do controls and how do they do burn management,	13.	doing these separately or together?
14.	and that sort of thing. We thought Carlos would	14.	CHAIRMAN MORELOCK: We'll do them
15.	be able to answer better than us.	15.	separately.
16.	CHAIRMAN MORELOCK: Any other yes?	16.	MR. BAILEY: Separate? Okay.
17.	MR. BAUGHMAN: One more item. You	17.	CHAIRMAN MORELOCK: Hopefully, the
18.	mentioned the relief valves are taken care of on the	18.	conversation will be a little faster, but yes.
19.	boiler. How often?	19.	So do I have a motion?
20.	MR. HARGROVE: That's an annual PM on	20.	MR. HARGROVE: Yeah.
21.	the boiler relief valves.	21.	MR. BAUGHMAN: One would hope.
22.	MR. BAUGHMAN: Okay. And the relief	22.	CHAIRMAN MORELOCK: Do I have a
23.	valve device review and approval is done how often?	23.	second.
24.	MR. HAYS: The for the	24.	MR. PISCHKE: Second.
21.	calculations?	25.	MR. FOX: I'll second.
25.	calculations:	1	

	D 101		D 102
1	Page 101	,	Page 103
1.	CHAIRMAN MORELOCK: Okay. Any more discussion? All in favor?	1.	room, and it's around 300 feet from the boiler
2.		2.	room. So same two-way radio communication, that
3.	MR. PISCHKE: Aye.	3.	sort of thing, between operators, and same
4.	MR. FOX: Aye.	4.	training requirements, minimum requirements, and
5.	MR. BAUGHMAN: Aye.	5.	that sort of thing.
6.	MR. BOWERS: Aye.	6.	Another difference between the two
7.	MR. HARGROVE: Aye.	7.	plants, boiler control systems (verbatim). Where
8.	CHAIRMAN MORELOCK: Opposed?	8.	we have a Foxboro, a Schneider Foxboro plant DCS
9.	Abstentions? Not voting. You do have a contingent	9.	at Polymer Drive, it is not controlling the
10.	variance. Since it is 15 till 11:00, I've held you	10.	boilers, but it is remotely monitoring. We're
11.	longer than I wanted to for a break, so please take	11.	using that system for remote monitoring purposes.
12.	a 10-minute break and we'll come back and wrap up	12.	So that would be the difference.
13.	your second manual.	13.	There are standalone control systems
14.	MR. HAYS: Thank you.	14.	on each boiler that were installed as turnkey
15.	CHAIRMAN MORELOCK: Thank you.	15.	packages when the boilers were installed. I
16.	(Recess observed.)	16.	believe that was I think it was 2005. But
17.	CHAIRMAN MORELOCK: All right. We	17.	that's the that's the major difference it's
18.	are on Item 17-16, BASF Polymer Drive, requesting a	18.	2004 on the boiler install. So or boiler
19.	new boiler variance.	19.	replacement. So that's the difference.
20.	MR. HAYS: Okay. This is for a	20.	CHAIRMAN MORELOCK: Okay. Do I have
21.	plant, too, known as the Polymer Drive site. So	21.	a motion to discuss this item?
22.	BASF is requesting a variance for two boilers at	22.	MR. PISCHKE: So moved.
23.	2120 Polymer Drive. They're used also as a part of	23.	CHAIRMAN MORELOCK: Do I have a
24.	the chemical manufacturing process, producing	24.	second?
25.	styrene-butadiene, styrene-butyl acrylate, and	25.	MR. BOWERS: Second.
	Page 102	H	Page 104
1.	Page 102 polymer dispersions for carpet, vacuums, and paper	1.	Page 104 CHAIRMAN MORELOCK: Okay. Are there
1. 2.	_	1. 2.	-
1	polymer dispersions for carpet, vacuums, and paper	1	CHAIRMAN MORELOCK: Okay. Are there
2.	polymer dispersions for carpet, vacuums, and paper coatings.	2.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing
2. 3.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure	2. 3.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."
2. 3. 4.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.	2. 3. 4.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.
2. 3. 4. 5.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM	2. 3. 4. 5.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.
2. 3. 4. 5. 6.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the	2. 3. 4. 5. 6.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.
2. 3. 4. 5. 6. 7.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are	2. 3. 4. 5. 6. 7.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.
2. 3. 4. 5. 6. 7. 8.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the same it's not the same layout, but our the	2. 3. 4. 5. 6. 7. 8.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  MR. BOWERS: Aye.
2. 3. 4. 5. 6. 7. 8. 9.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the same it's not the same layout, but our the purposes for our units are numbered the same. And	2. 3. 4. 5. 6. 7. 8. 9.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  MR. BOWERS: Aye.  CHAIRMAN MORELOCK: Opposed?
2. 3. 4. 5. 6. 7. 8. 9.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the same it's not the same layout, but our the purposes for our units are numbered the same. And so the at Plant 2, the area at 2,600 is where	2. 3. 4. 5. 6. 7. 8. 9.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  MR. BOWERS: Aye.  CHAIRMAN MORELOCK: Opposed?  Abstentions? Not voting? So the floor is now open
2. 3. 4. 5. 6. 7. 8. 9. 10.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the same it's not the same layout, but our the purposes for our units are numbered the same. And so the at Plant 2, the area at 2,600 is where the boilers are located.	2. 3. 4. 5. 6. 7. 8. 9. 10.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  MR. BOWERS: Aye.  CHAIRMAN MORELOCK: Opposed?  Abstentions? Not voting? So the floor is now open for discussion. So who's who has comments on
2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the same it's not the same layout, but our the purposes for our units are numbered the same. And so the at Plant 2, the area at 2,600 is where the boilers are located.  So this is the difference, as far as	2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  MR. BOWERS: Aye.  CHAIRMAN MORELOCK: Opposed?  Abstentions? Not voting? So the floor is now open for discussion. So who's who has comments on this package?
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the same it's not the same layout, but our the purposes for our units are numbered the same. And so the at Plant 2, the area at 2,600 is where the boilers are located.  So this is the difference, as far as remote monitoring goes, between the two plants.	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  MR. BOWERS: Aye.  CHAIRMAN MORELOCK: Opposed?  Abstentions? Not voting? So the floor is now open for discussion. So who's who has comments on this package?  MR. ROBINSON: Two editorial
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the same it's not the same layout, but our the purposes for our units are numbered the same. And so the at Plant 2, the area at 2,600 is where the boilers are located.  So this is the difference, as far as remote monitoring goes, between the two plants.  At the Amnicola plant where I explained that the main control room was a central	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  MR. BOWERS: Aye.  CHAIRMAN MORELOCK: Opposed?  Abstentions? Not voting? So the floor is now open for discussion. So who's who has comments on this package?  MR. ROBINSON: Two editorial comments. Obviously, the shutoff discussion, make that first. As far as the recall on the shutoff,
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the same it's not the same layout, but our the purposes for our units are numbered the same. And so the at Plant 2, the area at 2,600 is where the boilers are located.  So this is the difference, as far as remote monitoring goes, between the two plants.  At the Amnicola plant where I	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  MR. BOWERS: Aye.  CHAIRMAN MORELOCK: Opposed?  Abstentions? Not voting? So the floor is now open for discussion. So who's who has comments on this package?  MR. ROBINSON: Two editorial comments. Obviously, the shutoff discussion, make
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the same it's not the same layout, but our the purposes for our units are numbered the same. And so the at Plant 2, the area at 2,600 is where the boilers are located.  So this is the difference, as far as remote monitoring goes, between the two plants.  At the Amnicola plant where I explained that the main control room was a central location for all of the operators, for permitting	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  MR. BOWERS: Aye.  CHAIRMAN MORELOCK: Opposed?  Abstentions? Not voting? So the floor is now open for discussion. So who's who has comments on this package?  MR. ROBINSON: Two editorial comments. Obviously, the shutoff discussion, make that first. As far as the recall on the shutoff, the emergency shutoff instructions. Okay? Make
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2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the same it's not the same layout, but our the purposes for our units are numbered the same. And so the at Plant 2, the area at 2,600 is where the boilers are located.  So this is the difference, as far as remote monitoring goes, between the two plants.  At the Amnicola plant where I explained that the main control room was a central location for all of the operators, for permitting and all that sort of thing, in this case, the reactor control room, mainly serving the reactor	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  MR. BOWERS: Aye.  CHAIRMAN MORELOCK: Opposed?  Abstentions? Not voting? So the floor is now open for discussion. So who's who has comments on this package?  MR. ROBINSON: Two editorial comments. Obviously, the shutoff discussion, make that first. As far as the recall on the shutoff, the emergency shutoff instructions. Okay? Make editorial changes to secure the boiler first and then start the recall.  Okay. And then the other comment I
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the same it's not the same layout, but our the purposes for our units are numbered the same. And so the at Plant 2, the area at 2,600 is where the boilers are located.  So this is the difference, as far as remote monitoring goes, between the two plants.  At the Amnicola plant where I explained that the main control room was a central location for all of the operators, for permitting and all that sort of thing, in this case, the reactor control room, mainly serving the reactor area, is the centrally located control room.  And it's the one that's attended	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  MR. BOWERS: Aye.  CHAIRMAN MORELOCK: Opposed?  Abstentions? Not voting? So the floor is now open for discussion. So who's who has comments on this package?  MR. ROBINSON: Two editorial comments. Obviously, the shutoff discussion, make that first. As far as the recall on the shutoff, the emergency shutoff instructions. Okay? Make editorial changes to secure the boiler first and then start the recall.  Okay. And then the other comment I have is that Section I guess it's C or B, but
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the same it's not the same layout, but our the purposes for our units are numbered the same. And so the at Plant 2, the area at 2,600 is where the boilers are located.  So this is the difference, as far as remote monitoring goes, between the two plants.  At the Amnicola plant where I explained that the main control room was a central location for all of the operators, for permitting and all that sort of thing, in this case, the reactor control room, mainly serving the reactor area, is the centrally located control room.  And it's the one that's attended 24/7. And it's by reactor technicians, so not all	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  MR. BOWERS: Aye.  CHAIRMAN MORELOCK: Opposed?  Abstentions? Not voting? So the floor is now open for discussion. So who's who has comments on this package?  MR. ROBINSON: Two editorial comments. Obviously, the shutoff discussion, make that first. As far as the recall on the shutoff, the emergency shutoff instructions. Okay? Make editorial changes to secure the boiler first and then start the recall.  Okay. And then the other comment I have is that Section I guess it's C or B, but it's the description of the system. Let's see.
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the same it's not the same layout, but our the purposes for our units are numbered the same. And so the at Plant 2, the area at 2,600 is where the boilers are located.  So this is the difference, as far as remote monitoring goes, between the two plants.  At the Amnicola plant where I explained that the main control room was a central location for all of the operators, for permitting and all that sort of thing, in this case, the reactor control room, mainly serving the reactor area, is the centrally located control room.  And it's the one that's attended	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  MR. BOWERS: Aye.  CHAIRMAN MORELOCK: Opposed?  Abstentions? Not voting? So the floor is now open for discussion. So who's who has comments on this package?  MR. ROBINSON: Two editorial comments. Obviously, the shutoff discussion, make that first. As far as the recall on the shutoff, the emergency shutoff instructions. Okay? Make editorial changes to secure the boiler first and then start the recall.  Okay. And then the other comment I have is that Section I guess it's C or B, but it's the description of the system. Let's see.  I was going through and that's
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the same it's not the same layout, but our the purposes for our units are numbered the same. And so the at Plant 2, the area at 2,600 is where the boilers are located.  So this is the difference, as far as remote monitoring goes, between the two plants.  At the Amnicola plant where I explained that the main control room was a central location for all of the operators, for permitting and all that sort of thing, in this case, the reactor control room, mainly serving the reactor area, is the centrally located control room.  And it's the one that's attended 24/7. And it's by reactor technicians, so not all flavors of operators, so to speak; it's just the reactor technicians. And there are two of them.	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  MR. BOWERS: Aye.  CHAIRMAN MORELOCK: Opposed?  Abstentions? Not voting? So the floor is now open for discussion. So who's who has comments on this package?  MR. ROBINSON: Two editorial comments. Obviously, the shutoff discussion, make that first. As far as the recall on the shutoff, the emergency shutoff instructions. Okay? Make editorial changes to secure the boiler first and then start the recall.  Okay. And then the other comment I have is that Section I guess it's C or B, but it's the description of the system. Let's see.  I was going through and that's going to be your data sheet. I was going through
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23.	polymer dispersions for carpet, vacuums, and paper coatings.  The plant operates 91 other pressure vessels, including nine 3,300-gallon reactors.  And processes, like Amnicola, are covered by PSM and RMP standards. Both of our facilities are divided into six production units. We have the same it's not the same layout, but our the purposes for our units are numbered the same. And so the at Plant 2, the area at 2,600 is where the boilers are located.  So this is the difference, as far as remote monitoring goes, between the two plants.  At the Amnicola plant where I explained that the main control room was a central location for all of the operators, for permitting and all that sort of thing, in this case, the reactor control room, mainly serving the reactor area, is the centrally located control room.  And it's the one that's attended 24/7. And it's by reactor technicians, so not all flavors of operators, so to speak; it's just the	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 20. 21. 22. 23.	CHAIRMAN MORELOCK: Okay. Are there any conflicts with this item? All right. Hearing none, all in favor, say, "aye."  MR. HARGROVE: Aye.  MR. PISCHKE: Aye.  MR. FOX: Aye.  MR. BAUGHMAN: Aye.  MR. BOWERS: Aye.  CHAIRMAN MORELOCK: Opposed?  Abstentions? Not voting? So the floor is now open for discussion. So who's who has comments on this package?  MR. ROBINSON: Two editorial comments. Obviously, the shutoff discussion, make that first. As far as the recall on the shutoff, the emergency shutoff instructions. Okay? Make editorial changes to secure the boiler first and then start the recall.  Okay. And then the other comment I have is that Section I guess it's C or B, but it's the description of the system. Let's see.  I was going through and that's

	Dog	e 105		Page 10
1.	inspection completed in November, and then one in	e 103	1.	approved by the Board of Boiler Rules for the
2.	September.		2.	variance to remain in effect.
3.	But you do have an expired		3.	That is not entirely true. If your
4.	certificate on your boiler I guess that's your		4.	manual comes up for renewal in three years and you
5.	first one, your Boiler Number 1, and I'll give you		5.	have no technical changes, that approval can
6.	the number for it. It's the 50491 number. It's		6.	strictly be handled by the Chief Inspector.
7.	expired since September. And then the DA tank		7.	If you do make a technical change,
8.	it's been dormant since 2008. I don't know.		7. 8.	yes, it would need to come to the board. But we
o. 9.			o. 9.	don't we do not have to approve your manual
9. 10.	MR. HAYS: You don't have inspection records for the DA tank?		9. 10.	
		- 1		every three years unless there's a technical
11.	MR. ROBINSON: No, sir. Since 2008,		11. 12.	change.
12.	your let's see. I do have the date that it was			MS. DAVIS: Better safe than sorry.
13.	actually put into service but I didn't write that		13.	CHAIRMAN MORELOCK: Huh?
4.	down. I just wrote down the date that it was taken	- 1	14.	MS. DAVIS: Better safe than sorry.
5.	out of service.	- 1	15.	CHAIRMAN MORELOCK: Yes.
6.	And it was taken out of service and I	- 1	16.	MR. HARGROVE: Okay.
7.	didn't get the name, but it was 7/2/2008. And	- 1	17.	CHAIRMAN MORELOCK: And that's just
8.	maybe the number could have been I don't know.		18.	for your information. So but so you really
19.	Something's up.	- 1	19.	don't need that sentence, because we don't if you
20.	MR. HAYS: It sounds like	- 1	20.	put it in your manual, you don't want us to hold you
21.	MR. ROBINSON: So just verify		21.	to that, right?
22.	MR. HAYS: for that information, a	2	22.	MS. DAVIS: Right.
23.	field walk is in order on that.	2	23.	CHAIRMAN MORELOCK: So
24.	MR. ROBINSON: It is.	2	24.	MR. HAYS: Sure. We can right.
25.	MR. HAYS: And for us and		25.	We can remove that, and the next sentence kind of
	Pag	e 106		Page 10
1.	MR. ROBINSON: Get that information		1.	takes care of that, too, saying that
2.	back to the Chief.		2.	CHAIRMAN MORELOCK: Yes.
3.	MR. HAYS: get that straight.		3.	MR. HAYS: if we make any change,
4.	Yeah. Exactly.		4.	we do our management of change process, which
5.	MR. ROBINSON: So that's all I had.		5.	CHAIRMAN MORELOCK: Right.
6.	CHAIRMAN MORELOCK: Okay. What other	r I	6.	MR. HAYS: may or may not
7.	comments?		7.	include
8.	MR. PISCHKE: I assume that the same		8.	CHAIRMAN MORELOCK: Right. If
9.	recommendations for the last modifications would		9.	your
0.	be		10.	MR. HAYS: another one of these
11.	CHAIRMAN MORELOCK: Yes.	- 1	11.	manuals.
2.	MR. PISCHKE: in order for this		12.	CHAIRMAN MORELOCK: If your change to
3.	one.		13.	the manual trips the MOC process, it's probably
<i>3</i> .	CHAIRMAN MORELOCK: And that's	- 1	13. 14.	going to be some sort of technical change, too. But
5.	correct. All the comments from the previous manual	- 1	14. 15.	there's probably not always. You're right.
.5. .6.			15. 16.	MR. HAYS: Sometimes for things that
	will apply for this manual, as well.			-
7.	So I just have a few comments, while		17.	are inserted in this manual, such as the operating
Q	everybody else is thinking a little bit. On		18.	procedures that we inserted in there in a certain
	· · ·	- 11	19.	format, we may get audited, and an auditor pointed
9.	Page 9 it's in Section B, Page 9.	- 1	<b>า</b> ∩	out to us that our format needs a correction, and
9. 20.	Page 9 it's in Section B, Page 9.  You state that renewal of the	2	20.	recall have to about a the ferminate of and
9. 20. 21.	Page 9 it's in Section B, Page 9.  You state that renewal of the variance will be added to the maintenance plan,	2 2	21.	we'll have to change the format of every procedure
19. 20. 21.	Page 9 it's in Section B, Page 9.  You state that renewal of the variance will be added to the maintenance plan, SAP upon approval by the board, inspection by the	2 2 2 2	21. 22.	out there. So that might be an example of
19. 20. 21. 22.	Page 9 it's in Section B, Page 9.  You state that renewal of the variance will be added to the maintenance plan, SAP upon approval by the board, inspection by the Chief Inspector. And then above that, it says,	2 2 2 2	21. 22. 23.	out there. So that might be an example of CHAIRMAN MORELOCK: That's right.
18. 19. 20. 21. 22. 23.	Page 9 it's in Section B, Page 9.  You state that renewal of the variance will be added to the maintenance plan, SAP upon approval by the board, inspection by the Chief Inspector. And then above that, it says, any manual revision the last sentence in the	2 2 2 2 2	21. 22. 23. 24.	out there. So that might be an example of CHAIRMAN MORELOCK: That's right. MR. HAYS: where we don't change
19. 20. 21. 22.	Page 9 it's in Section B, Page 9.  You state that renewal of the variance will be added to the maintenance plan, SAP upon approval by the board, inspection by the Chief Inspector. And then above that, it says,	2 2 2 2 2	21. 22. 23.	out there. So that might be an example of CHAIRMAN MORELOCK: That's right.

	Page 10	9	Page 1
1.	CHAIRMAN MORELOCK: Right.	1.	very important.
2.	MR. HAYS: a correct procedure	2.	MR. HAYS: Right.
3.	inserted into the manual. So we would go we	3.	MS. DAVIS: And then our hard copies
4.	would do the change management for that.	4.	are printed on paper that says, document control.
5.	CHAIRMAN MORELOCK: And with all	5.	CHAIRMAN MORELOCK: And I saw that.
5.	those procedures in your manual, it's fine. It's	6.	Yeah. I saw that. So that's good.
7.	your manual. It's not required by the checklist.	7.	MR. HAYS: We'll also we'll MOC
8.	It's fantastic information.	8.	this also. You know. We'll run this through the
9.	So if you make a change to that	9.	change management process also, and there's going to
0.	procedure, that wouldn't necessarily trigger the	10.	be a risk assessment and everything else that goes
1.	board having to review it. You just need to say	11.	along with it, you know, that we have do here on
2.	that this change does not affect the requirements	12.	site and all the management approval. But we'll do
3.	of the checklist. It may affect your internal	13.	training on how with maintenance on how to
4.	policies, but we're not telling you how to	14.	maintain their variance, and as a checklist item,
5.	maintain those policies. So	15.	get it in the maintenance plan where something's
6.	MR. HAYS: Okay.	16.	going to come up just like our electrical license or
7.	CHAIRMAN MORELOCK: But if your	17.	anything else that says, hey, you're due to renew
8.	variance changes, technically, you change	18.	this before it expires.
9.	controllers, you change boilers, you change	19.	CHAIRMAN MORELOCK: Okay.
0.	setpoints, whatever that may be, then we would need	20.	MR. HAYS: So
1.	to review that manual at your renewal. Okay?	21.	CHAIRMAN MORELOCK: Again, like I've
22.	On Pages 12 and 32, I had question.	22.	said with other manuals, as you read through the
23.	How do you control because you	23.	manual, you know your facility, you know your
24.	have this manual electronically. How do you	24.	process, and you know your people. Make sure your
5.	control your electronic version of this manual	25.	job titles are consistent from org. chart to all
	Page 11	0	Page 1
1.	from unauthorized changes?	1.	sections of the manual. Okay?
2.	MR. HAYS: The well, at this point	2.	It was interesting on Page 30 where
3.	in time, we have electronically, we have it in	3.	you say that you do realize that your remote
4.	the maintenance department's files and folders. And	4.	monitors could be distracted, but you also cover
5.	so if you wanted rights to edit in that directory on	5.	that by having more than one person monitoring at
6.	our shared drive, you would have to have permission	6.	any given time. So that was a nice way to state
7.	from the maintenance department and our IT folks	7.	that.
8.	CHAIRMAN MORELOCK: Okay.	8.	Page 42. I had a question. Is the
9.	MR. HAYS: would have to give you	9.	utility technician the boiler operator?
0.	those rights. Otherwise, probably anyone in	10.	MR. HAYS: Yes, sir.
1.	maintenance can see it, can see the folders.	11.	CHAIRMAN MORELOCK: Okay. What about
2.	Operators may not. They may just have manuals and	12.	a process tech?
3.	procedures, and that sort of thing. So our folder	13.	MR. HAYS: All plant operators are
4.	structure is set up that way where everybody gets	14.	process technicians
5.	some rights and then specific job functions get	15.	CHAIRMAN MORELOCK: Okay.
6.	others.	16.	MR. HAYS: as a general job
	CHAIRMAN MORELOCK: Well, and just	17.	description.
7.	it's for our benefit, as well as yours. You don't	18.	CHAIRMAN MORELOCK: Okay. Again,
		19.	that goes back to my previous statement. Make sure
8.	•	11/	
8. 9.	want the Chief Inspector to come to your plant with		we understand that those are the same beoble.
8. 9. 0.	want the Chief Inspector to come to your plant with this manual and say, I want to see your electronic	20.	we understand that those are the same people.  And then you've got a lot of great
8. 9. 0.	want the Chief Inspector to come to your plant with this manual and say, I want to see your electronic version, and they're not the same manual.	20. 21.	And then you've got a lot of great
.8. .9. .20. .21.	want the Chief Inspector to come to your plant with this manual and say, I want to see your electronic version, and they're not the same manual.  MS. DAVIS: Right.	20. 21. 22.	And then you've got a lot of great information in here. Just for my clarity, who is
18. 19. 20. 21. 22.	want the Chief Inspector to come to your plant with this manual and say, I want to see your electronic version, and they're not the same manual.  MS. DAVIS: Right.  MR. HAYS: Right.	20. 21. 22. 23.	And then you've got a lot of great information in here. Just for my clarity, who is responsible for the boiler facility, implementing
17. 18. 19. 20. 21. 22. 23.	want the Chief Inspector to come to your plant with this manual and say, I want to see your electronic version, and they're not the same manual.  MS. DAVIS: Right.  MR. HAYS: Right.  CHAIRMAN MORELOCK: So just as	20. 21. 22. 23. 24.	And then you've got a lot of great information in here. Just for my clarity, who is responsible for the boiler facility, implementing this variance, and keeping the manual current?
8. 9. 0. 1. 2.	want the Chief Inspector to come to your plant with this manual and say, I want to see your electronic version, and they're not the same manual.  MS. DAVIS: Right.  MR. HAYS: Right.	20. 21. 22. 23.	And then you've got a lot of great information in here. Just for my clarity, who is responsible for the boiler facility, implementing

	Page 113		Page 115
1.	the looking at	1.	CHAIRMAN MORELOCK: Right.
2.	MS. DAVIS: I believe we said that it	2.	MR. HAYS: like even our pipe
3.	was a maintenance thing to keep current, because	3.	service index where we, you know, have gasket types
4.	it's in their maintenance SAP.	4.	and certain things, valve types and materials and
5.	CHAIRMAN MORELOCK: Because we just	5.	construction for different services, that I may be
6.	want a point of contact that's usually see that	6.	instructed to you know, by my manager to do an
7.	in your cover letter, which would be under	7.	update and I might do an MOC on another project
8.	Section A. And it says that you all are present,	8.	manager might do it. So at our plant the way
9.	which you are here today, but I didn't see a	9.	it's actually done it's not one certain person's
10.	specific listing. And in your cover letter would be	10.	job function. You know.
11.	fine just to say, this is who's responsible for the	11.	CHAIRMAN MORELOCK: Okay.
12.	boiler facility, implementation of the variance, and	12.	MR. HAYS: It may be whoever's
13.	maintaining the manual.	13.	available in the engineering department to head the
14.	MS. DAVIS: Just one second.	14.	thing up and see that it's done correctly
15.	CHAIRMAN MORELOCK: Because I saw a	15.	CHAIRMAN MORELOCK: Well
16.	term that said "change coordinator" and I	16.	MR. HAYS: or production, but
17.	MR. HAYS: Okay. Okay. Yeah. So	17.	CHAIRMAN MORELOCK: you know, we
18.	that whenever we make a change	18.	being the board and the State
19.	CHAIRMAN MORELOCK: Right.	19.	MR. HAYS: Right.
20.	MR. HAYS: if I initiate the	20.	CHAIRMAN MORELOCK: they just need
21.	change, I'm the change coordinator. If it's a	21.	to know like, when they make that site visit
22.	change for this manual, then I would be responsible	22.	MR. CHAPMAN: Who they're
23.	for it.	23.	CHAIRMAN MORELOCK: who do they
24.	CHAIRMAN MORELOCK: Right.	24.	talk to about being responsible for the manual,
25.	MR. HAYS: Unless I make Brittany the	25.	responsible for the boiler
1			
	Расе 114		Page 116
1	Page 114	1	MS_DAVIS: So the way that Section
1.	change coordinator or something like that where you	1.	MS. DAVIS: So the way that Section
2.	change coordinator or something like that where you can hand it off to other people.	2.	MS. DAVIS: So the way that Section  Number 11 is written that says who's responsible for
2. 3.	change coordinator or something like that where you can hand it off to other people.  CHAIRMAN MORELOCK: And revising the	2. 3.	MS. DAVIS: So the way that Section  Number 11 is written that says who's responsible for the manual updates really, what happens is if we
2. 3. 4.	change coordinator or something like that where you can hand it off to other people.  CHAIRMAN MORELOCK: And revising the manual, that's fine, but we just want a name of	2. 3. 4.	MS. DAVIS: So the way that Section  Number 11 is written that says who's responsible for the manual updates really, what happens is if we were granted a variance, then it would go into our
2. 3. 4. 5.	change coordinator or something like that where you can hand it off to other people.  CHAIRMAN MORELOCK: And revising the manual, that's fine, but we just want a name of who's responsible for those functions, whoever that	2. 3. 4. 5.	MS. DAVIS: So the way that Section  Number 11 is written that says who's responsible for the manual updates really, what happens is if we were granted a variance, then it would go into our SAP program, which in three years will kick out and
2. 3. 4. 5. 6.	change coordinator or something like that where you can hand it off to other people.  CHAIRMAN MORELOCK: And revising the manual, that's fine, but we just want a name of who's responsible for those functions, whoever that may be.	2. 3. 4. 5. 6.	MS. DAVIS: So the way that Section  Number 11 is written that says who's responsible for the manual updates really, what happens is if we were granted a variance, then it would go into our SAP program, which in three years will kick out and say, hey, you need to determine if you've had any
2. 3. 4. 5. 6. 7.	change coordinator or something like that where you can hand it off to other people.  CHAIRMAN MORELOCK: And revising the manual, that's fine, but we just want a name of who's responsible for those functions, whoever that may be.  MR. HAYS: If it needs to be one	2. 3. 4. 5. 6. 7.	MS. DAVIS: So the way that Section  Number 11 is written that says who's responsible for the manual updates really, what happens is if we were granted a variance, then it would go into our SAP program, which in three years will kick out and say, hey, you need to determine if you've had any changes, which, you know, if we haven't had any
2. 3. 4. 5. 6. 7. 8.	change coordinator or something like that where you can hand it off to other people.  CHAIRMAN MORELOCK: And revising the manual, that's fine, but we just want a name of who's responsible for those functions, whoever that may be.  MR. HAYS: If it needs to be one person, we can name	2. 3. 4. 5. 6.	MS. DAVIS: So the way that Section  Number 11 is written that says who's responsible for the manual updates really, what happens is if we were granted a variance, then it would go into our SAP program, which in three years will kick out and say, hey, you need to determine if you've had any changes, which, you know, if we haven't had any changes, technically, we would have come back to the
2. 3. 4. 5. 6. 7. 8. 9.	change coordinator or something like that where you can hand it off to other people.  CHAIRMAN MORELOCK: And revising the manual, that's fine, but we just want a name of who's responsible for those functions, whoever that may be.  MR. HAYS: If it needs to be one person, we can name  CHAIRMAN MORELOCK: Well, no, I mean,	2. 3. 4. 5. 6. 7. 8. 9.	MS. DAVIS: So the way that Section  Number 11 is written that says who's responsible for the manual updates really, what happens is if we were granted a variance, then it would go into our SAP program, which in three years will kick out and say, hey, you need to determine if you've had any changes, which, you know, if we haven't had any changes, technically, we would have come back to the Board already (verbatim).
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	Page 117		Page 119
1.	to, just to add some clarity to that. That would be	   <sub>1.</sub>	with a one in it would be a priority one; amber with
2.	fine.	2.	a two in it would be priority two; blue with a three
3.	MR. HAYS: Okay.	3.	in it, I think is what the normal convention is for
4.	CHAIRMAN MORELOCK: Okay?	4.	that
5.	MR. HAYS: A little more information	5.	MR. BAUGHMAN: Is that described in
6.	there. I would say as long as we're employed at the	6.	this manual?
7.	Chattanooga site, that Brittany and I will be	7.	MR. HARGROVE: It's
8.	MS. DAVIS: Are the lucky ones.	8.	MS. DAVIS: We have a photo of the
9.	MR. HAYS: Yeah. Nobody's going to	9.	lights.
10.	volunteer to take that over.	10.	MR. HAYS: Well, we have the that
11.	MR. ROBINSON: Both of you two guys	11.	was for Amnicola.
12.	are predating yourselves.	12.	We do have a screenshot of a current
13.	CHAIRMAN MORELOCK: That's all the	13.	alarm display, though.
14.	comments I have. It is a very good manual, though,	14.	MR. BAUGHMAN: Okay.
15.	by the way.	15.	MR. HAYS: Somewhere. This is
16.	MR. HAYS: Thank you. Thank you.	16.	where
17.	CHAIRMAN MORELOCK: You did a lot of	17.	MR. BAUGHMAN: So when the inspector
18.	work on that. So anything else?	18.	goes to do his variance inspection and he makes the
19.	MR. BAUGHMAN: Yes sir. So on	19.	boiler trip and shut off, if it's not determined a
20.	Page 19 under remote monitoring system descriptions,	20.	urgent or severe and it's an amber instead of a red,
21.	under the remote alarm system under a remote	21.	it may not require a shutdown, according to a risk
22.	alarm system, it says, alarms are displayed to the	22.	matrix. It's been determined? Is that what I'm
23.	operator via the current alarm display and	23.	getting at?
24.	prioritized according to urgency and severity.	24.	MR. HAYS: As far as maybe I could
25.	I don't see a prioritization chart,	25.	have put this differently. As far as alarms that
	Page 118		Page 120
1.	so I'm wondering, is that a how is it	1.	require an operator intervention, generally, we have
2.	determined the urgency and severity? What's the	2.	priority one, two, three, and five.
3.	protocol? Is it a written protocol?	3.	So some priority alarms or
4.	MR. HAYS: Well, I almost hate that	4.	priority five alarms are used for time stamps,
5.	we're talking about Polymer on this, because our	5.	basically. They may trigger, but it's not really
6.	actual alarm prioritization procedure that I'm most	6.	an alarm; it's a notification. It's a low enough
7.	familiar with is for Amnicola. But we actually have	7.	priority to where if we need to know, hey, this
8.	a procedure where we say, you do a risk assessment	8.	process change happened in the middle of the
9.	and there's a risk matrix in there that's similar to	9.	night. We started having trouble with such and
10.	what we use the corporate risk matrix that we use	10.	such, and it doesn't have to be the boilers.
11.	for assessing risk.	11.	Where we would say, well, we saw that this
12.	And then you would look at things	12.	happened during this time. You know. And it's in
13.	like, does it require operator intervention? Does	13.	an alarm log.
14.	it is this an alarm that would that could be	14.	MR. BAUGHMAN: Sure. But specific to
15.	handled in the next 15 minutes that requires	15.	the boilers.
16.	operator intervention? Is it immediate? That	16.	MR. HAYS: But specific to the
17.	sort of thing. And it's prioritized that way at	17.	boilers, at Polymer Drive, there are fewer alarms
18.	our	18.	there, and I do not have the information in there
19.	MR. BAUGHMAN: Is it a written I	19.	for their priority. Their exact this alarm is
20.	mean, how in other words, I'm sitting at the	20.	this priority and this alarm is that priority; I
21.	remote station and I get an alarm, how do I	21.	don't have that information in there.
22.	what's my protocol for knowing urgency and severity?	22.	MR. BAUGHMAN: Okay.
23.	MR. HAYS: It's on the current	23.	MR. HAYS: If it comes to the control
24.	alarm display, when you get alarms in the corner of	24.	room from the boilers at Polymer Drive, it's low
25.	the display. It gives you a colored square. Red	25.	water, high pressure, a boiler shutdown, I believe
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1.	we listed them	1.	you should do. But then in other cases like at	1 uge 123
2.	MR. ROBINSON: So what priority	2.	Amnicola where they have the full alarming	
3.	MR. HAYS: but we didn't list the	3.	capability	
4.	priority.	4.	CHAIRMAN MORELOCK: Right.	
5.	MR. ROBINSON: would those take?	5.	MR. HAYS: there, you know, and	
6.	MR. HAYS: Well, they should be a	6.	don't have the standalone control systems at the	
7.	priority one, because a boiler alarm and I don't	7.	boilers. They have a little bit different	
8.	have the procedure in front of me for prioritizing,	8.	decision-making process.	
9.	but I would say it's a we have some words in our	9.	CHAIRMAN MORELOCK: Okay.	
10.	procedure that, you know, says that it may have EHS	10.	MR. HAYS: Also, at Polymer Drive,	
11.	significance.	11.	it's a little less confusing, possibly, for the	
12.	MR. ROBINSON: Yes, sir.	12.	operators, because if you are a finishing	
13.	MR. HAYS: Or it may have	13.	operator this is why it's important at Amnicola	
14.	environmental, you know, impacts if you're running a	14.	to have good alarm prioritization and good	
15.	tank over, or something like that. You know,	15.	indications. We even have lights above the stations	
16.	spilling a chemical. That sort of thing.	16.	just to let them know during an alarm flood, if that	
17.	So EHS-related items are generally in	17.	were to happen, where they need to go first.	
18.	that priority one. I believe I don't think you	18.	Because they may not be trained in two of those	
19.	can get to priority one without having a	19.	areas, and they just relay information. Here's what	
20.	MS. DAVIS: The risk matrix that we	20.	I'm seeing on the screen, Mr. Operator, for this	
21.	use is actually the same risk matrix we use when	21.	area.	
22.	we're doing our PHAs for PSM purposes.	22.	At Polymer Drive, just reactor guys.	
23.	MR. ROBINSON: Yes, ma'am.	23.	Just the reactor area and boiler alarms. You	
24.	MS. DAVIS: So and really, where	24.	know, certain that show up on the miscellaneous	
25.	the prioritization comes in like we said, there's	25.	page that we included in the manual. There's	
	Page 122			Page 124
1.	always somebody in the control room, so they're not	1.	examples of what there's a miscellaneous alarms	- 1.81 1
2.	going to let an alarm go off and then not	2.	page.	
3.	acknowledge it.	3.	So when they get an alarm in the	
4.	But really, where the prioritization	4.	boiler area, they would get an indicater; their	
5.	comes in is if there's multiple alarms going off,	5.	little tab would be flashing; it would direct them	
6.	they need to know which ones to attend to first.	6.	to click on it; and that page would open up they	
7.	Like I said, they're going to look at	7.	would see it, you know, right away.	
8.	alarms, but if they have three going off at the	8.	So it's not exactly the same between	
9.	same time, maybe one's, you know, high priority	9.	the plants, and I'm not sure we got that across as	
10.	and the other two are lower. So they're going to	10.	well as we could have.	
11.	be directed to the high priority first.	11.	MR. BAUGHMAN: Yeah. Well, and	
12.	CHAIRMAN MORELOCK: But does this tie	12.	that's why we look at these individually, too,	
13.	back to Mr. Robinson's comment about the go ahead	13.	because they are two separate installation	
14.	and e-stop the boiler. Don't get on the radio.	14.	identities. But	
15.	Don't be calling people. So if you get a red square	15.	MR. HAYS: Yeah. I think it's easier	
16.	with a priority one in it, does that need to go in	16.	for the Polymer guys to, you know, sort through	
17.	your emergency procedure, as well, to go ahead and	17.	their alarms because the vast majority of anything	
18.	e-stop that boiler? I don't know.	18.	that they did are the reactor area. You know, in	
19.	MR. HAYS: Well, as far as and	19.	their normal routine.	
20.	we'll have to think about that a little bit	20.	MR. ROBINSON: Mr. Hays, when we	
21.	CHAIRMAN MORELOCK: Yeah.	21.	Chief just advised me. When we perform your audi	t,
22.	MR. HAYS: to make it clear to the	22.	we're going to be looking for your boiler to shut	
23.	operator	23.	down on the fail-safes. What you do with your	
24.	CHAIRMAN MORELOCK: Yeah.	24.	matrix I know it's outside the scope of our	
25.	MR. HAYS: here is exactly what	25.	variance, but what we want to see is the boiler put	
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	i iovided by otolie & deolige C	Jul	1 1.0porting (010) 200-1244	

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1.	into a safe condition.	1.	sorry, go ahead.	
2.	And naturally, it's going to revert	2.	MS. DAVIS: Like I said, for the MOC	
3.	back to your emergency operating procedure with	3.	process, if we were to initiate MOC, that would be	
4.	the Items 1 through 4, and the first one being,	4.	myself or whoever initiates the MOC, but as far as	
5.	you know, the monitor's going to make a phone call	5.	boiler training and area training for whatever job	
6.	or he's going to actually shut down the boiler,	6.	they might be doing, the process for that is the new	
7.	and then he's going to start making phone calls.	7.	technician will follow a senior operator. So we	
8.	That's what we're doing. We're here to verify	8.	have several levels of process technicians, so they	
9.	that.	9.	will shadow a senior technician.	
10.	MR. HAYS: And	10.	And then the production group leader	
11.	MR. ROBINSON: Just to be clear.	11.	will evaluate whether, you know, they're you	
12.	MR. HAYS: Right. So same as	12.	know, we have some questions and stuff that they	
13.	the Amnicola, basically. If it's a high enough	13.	go through, and they will evaluate whether they	
14.	pri if the alarm priority that's assigned to it	14.	are qualified or not.	
15.	doesn't necessarily determine in the burner	15.	Now, the technician in training does	
16.	management system that it shuts the boiler down or	16.	have the opportunity to say, I don't feel	
17.	not, we could it's either it either meets the	17.	confident in this yet and I prefer to keep on	
18.	requirement for burner management or not. You know.	18.	training. So it's a combined decision between the	
19.	So that's what you'll see. That's what you'll see.	19.	senior process technician that is being shadowed,	
20.	You'll see it.	20.	the new process technician, and the production	
21.	MR. ROBINSON: Now I can get the	21.	group leader. And then annual training is kicked	
22.	Chief off my back.	22.	out in our learning management system for	
23.	MR. HAYS: I didn't want you to think	23.	refresher.	
24.	that possibly something that should have shut the	24.	MR. BAUGHMAN: And who's in charge of	
25.	boiler down, low water cutoff oh, they messed up	25.	training through the variance manual?	
1	Dags 126		Daga	. 120
1	Page 126	1	_	e 128
1.	and assigned priority five and it doesn't shut the	1.	MS. DAVIS: Excuse me?	e 128
2.	and assigned priority five and it doesn't shut the boiler down that doesn't determine whether it's	2.	MS. DAVIS: Excuse me? MR. BAUGHMAN: Who is in charge of	e 128
2. 3.	and assigned priority five and it doesn't shut the boiler down that doesn't determine whether it's a you know, hardwired analog or anything like	2. 3.	MS. DAVIS: Excuse me? MR. BAUGHMAN: Who is in charge of training personnel to the variance manual?	e 128
2. 3. 4.	and assigned priority five and it doesn't shut the boiler down that doesn't determine whether it's a you know, hardwired analog or anything like that shuts the thing down.	2. 3. 4.	MS. DAVIS: Excuse me? MR. BAUGHMAN: Who is in charge of training personnel to the variance manual? MS. DAVIS: That would be whoever	e 128
2. 3. 4. 5.	and assigned priority five and it doesn't shut the boiler down that doesn't determine whether it's a you know, hardwired analog or anything like that shuts the thing down.  MR. ROBINSON: Yes, sir.	2. 3. 4. 5.	MS. DAVIS: Excuse me? MR. BAUGHMAN: Who is in charge of training personnel to the variance manual? MS. DAVIS: That would be whoever initiates the MOC, so either Chris or myself, or	e 128
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	Page 129		Page 131
1.	CHAIRMAN MORELOCK: Okay.	1.	answers the question. And you've got job titles so
2.	MR. PISCHKE: But just to add to	2.	you don't have to update it every time there's a
3.	that, the clearer you can be with that	3.	personnel change, so thank you.
4.	CHAIRMAN MORELOCK: Yeah.	4.	Any other questions or comments?
5.	MS. DAVIS: Right.	5.	Very, very good discussion.
6.	MR. PISCHKE: it just makes it	6.	With that said, I'm going to I
7.	easier.	7.	need a motion for contingent approval of this
8.	CHAIRMAN MORELOCK: It does. Any	8.	variance manual
9.	other questions or comments? All right. Hearing	9.	MR. PISCHKE: So moved.
10.	none	10.	CHAIRMAN MORELOCK: contingent
11.	MS. DAVIS: We so can I interject	11.	upon the oh, sorry.
12.	for just one second?	12.	MR. PISCHKE: No. Go ahead.
13.	CHAIRMAN MORELOCK: Yes. You're	13.	CHAIRMAN MORELOCK: Contingent upon
14.	MS. DAVIS: On Page 27, it says the	14.	the fact of the changes being the comments from
15.	MOC coordinator is responsible training remote	15.	the board being implemented into the manual, as well
16.	monitoring personnel and boiler operators on	16.	as a successful site visit from the Chief Inspector.
17.	changes. The last sentence.	17.	MR. PISCHKE: So moved.
18.	CHAIRMAN MORELOCK: Okay.	18.	CHAIRMAN MORELOCK: So moved.
19.	MR. BAUGHMAN: On changes.	19.	MR. PISCHKE: Yes, sir.
20.	MS. DAVIS: So we stated previously	20.	CHAIRMAN MORELOCK: You got a second?
21.	that if we were given a variance, this manual would	21.	MR. BAUGHMAN: Second.
22.	go through a management of change process, and right	22.	CHAIRMAN MORELOCK: All right. Last
23.	here we're saying the MOC coordinator is responsible	23.	chance for any more comments. Okay. Hearing none,
24.	for training.	24.	all in favor, say, "aye."
25.	MR. HAYS: So if it's your MOC,	25.	MR. FOX: Aye.
-0.	1111 1111 20 11 100 your 1100,	-0.	
1			
	Page 130	<u> </u>	Page 132
1.	Page 130 vou're responsible to get everybody trained.	1.	Page 132 MR. HARGROVE: Ave.
1. 2.	you're responsible to get everybody trained,	1.	MR. HARGROVE: Aye.
1. 2. 3.	you're responsible to get everybody trained, basically, unless you can convince one of your	1. 2. 3.	MR. HARGROVE: Aye. MR. PISCHKE: Aye.
2.	you're responsible to get everybody trained,	2.	MR. HARGROVE: Aye. MR. PISCHKE: Aye. MR. BAUGHMAN: Aye.
2. 3. 4.	you're responsible to get everybody trained, basically, unless you can convince one of your co-workers to do it or something. MS. DAVIS: And it's face-to-face	2. 3. 4.	MR. HARGROVE: Aye. MR. PISCHKE: Aye. MR. BAUGHMAN: Aye. MR. BOWERS: Aye.
2. 3. 4. 5.	you're responsible to get everybody trained, basically, unless you can convince one of your co-workers to do it or something.  MS. DAVIS: And it's face-to-face training and all the operators have to sign off on a	2. 3.	MR. HARGROVE: Aye. MR. PISCHKE: Aye. MR. BAUGHMAN: Aye. MR. BOWERS: Aye. CHAIRMAN MORELOCK: Opposed?
2. 3. 4. 5. 6.	you're responsible to get everybody trained, basically, unless you can convince one of your co-workers to do it or something.  MS. DAVIS: And it's face-to-face training and all the operators have to sign off on a physical sheet that they understand.	2. 3. 4. 5.	MR. HARGROVE: Aye. MR. PISCHKE: Aye. MR. BAUGHMAN: Aye. MR. BOWERS: Aye. CHAIRMAN MORELOCK: Opposed? Abstentions? Not voting? You have a contingently
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	Page 133		p	Page 135
1.	MR. GROSS: All right. Good morning,	1.	108 planned for 2018. And we completed six CUI	age 133
2.	board and guests. I'm Jeremy Gross. I'm the chief	2.	inspections, which is corrosion under insulation,	
3.	inspector at the Valero Memphis Refinery. I'm here	3.	as well as I have 21 planned for 2018.	
4.	to give our annual review of our RBI inspection	4.	And our jurisdictional inspection	
5.	program to show that we are evergreening in keeping	5.	total for 2017 was 231. As you can see, we have	
6.	that program constant.	6.	quite a hefty year for 2018 with 488 coming,	
7.	The report before you the	7.	starting in January. So a big year for our	
8.	summary our risk-based inspection programs to	8.	jurisdictional externals coming up.	
9.	be active at the Valero Memphis Refinery	9.	Our evergreen activities for the RBI	
10.	(verbatim). We continue to maintain our scheduled	10.	program include, reviewing our assigned damage	
11.	damaged mechanism, specific inspections planned,	11.	mechanisms and executing those proper inspection	
12.	and executed on training during routine	12.	techniques. And then we record those inspection	
13.	maintenance or during major maintenance outages.	13.	results and grading them per our respective	
14.	The key activities related to the	14.	inspection effectiveness tables. Those scheduling	
15.	program in 2017 are as follows: The site	15.	activities happen within our PCMS data management	
16.	underwent a corporate process safety management	16.	system, and we utilize a RBI module using the RBI	
17.	audit, as well as a Tennessee occupational safety	17.	methodology.	
18.	and health administration voluntary site audit in	18.	Non-intrusive inspection techniques	
19.	2017.	19.	are executed and captured during the external	
20.	Following the rigorous evaluation,	20.	inspection, routine corrosion monitoring, and	
21.	the site achieved the prestigious honor of being	21.	especially non-destructive testing is performed	
22.	named a VPP star site. That is a big	22.	when required. And we do revalidate our fluid	
23.	accomplishment for our facility. We've been	23.	properties and operating conditions ongoing on a	
24.	working towards that for quite some time. The	24.	five-year interval, which is per PSM rules and	
25.	Memphis Refinery is now one of just 36 volunteer	25.	regulations.	
	Page 134	$\vdash$	p	Page 136
1	Page 134 star sites in Tennessee. So we're very proud of	1		Page 136
1.	star sites in Tennessee. So we're very proud of	1.	Our jurisdictional activities on our	Page 136
2.	star sites in Tennessee. So we're very proud of that accomplishment.	2.	Our jurisdictional activities on our registered equipment are maintained with zero	Page 136
2. 3.	star sites in Tennessee. So we're very proud of that accomplishment.  Valero has a total of 15 refineries	2. 3.	Our jurisdictional activities on our registered equipment are maintained with zero delinquencies and are handled outside our RBI	Page 136
2. 3. 4.	star sites in Tennessee. So we're very proud of that accomplishment.  Valero has a total of 15 refineries and is leading the refining industry with nine	2. 3. 4.	Our jurisdictional activities on our registered equipment are maintained with zero delinquencies and are handled outside our RBI program. Our process equipment is circuitized and	Page 136
2. 3. 4. 5.	star sites in Tennessee. So we're very proud of that accomplishment.  Valero has a total of 15 refineries and is leading the refining industry with nine total star sites across the U.S. and two outside	2. 3. 4. 5.	Our jurisdictional activities on our registered equipment are maintained with zero delinquencies and are handled outside our RBI program. Our process equipment is circuitized and risk-ranked in the RBI program. Our data	Page 136
2. 3. 4.	star sites in Tennessee. So we're very proud of that accomplishment.  Valero has a total of 15 refineries and is leading the refining industry with nine total star sites across the U.S. and two outside of the North American continent. Our maintenance	2. 3. 4.	Our jurisdictional activities on our registered equipment are maintained with zero delinquencies and are handled outside our RBI program. Our process equipment is circuitized and risk-ranked in the RBI program. Our data management software integrates the design	Page 136
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	Page 137	1	Page 139
1.	structures within our plants this year. We did	1.	to be an SGE employee to work with
2.	have an insurance audit, and that was one of our	2.	Mr. David Blessman to go out to other sites and help
3.	areas that we had a finding on, and we corrected	3.	with other VPP assessments, as well as our we
4.	that finding.	4.	have a VPP coordinator, and his name is
5.	Are there any questions from the	5.	John Pfiffer. He was also trained.
6.	board of the data presented?	6.	So we have two SGEs at our site now
7.	CHAIRMAN MORELOCK: Any questions?	7.	that will be able to help Tennessee OSHA conduct
8.	MR. BAUGHMAN: It's a good report.	8.	assessments. As a matter of fact, your PSM
9.	MR. GROSS: Thank you.	9.	manager came to our site, Brian, to do ours.
10.	MR. BAUGHMAN: Yeah. Jeremy, you do	10.	CHAIRMAN MORELOCK: Yeah.
11.	real well. You mentioned the boilers got a variance	111.	MR. GROSS: So as an SGE.
12.	approved for two-year, 24-month inspection	12.	CHAIRMAN MORELOCK: Very good. Any
13.	intervals?	13.	more comments? Okay. With that said, do I have a
14.	MR. ROBINSON: Internal inspection.	14.	motion to accept the Valero report to give them
15.	MR. GROSS: Yes, sir.	15.	MR. PISCHKE: Conflict.
16.	MR. BAUGHMAN: Internal inspections?	16.	MR. BAILEY: Is there a conflict?
10. 17.	MR. GROSS: Yes, sir.	17.	CHAIRMAN MORELOCK: Oh, yeah. Thank
17.	MR. BAUGHMAN: So when was the last	18.	you. Is there a conflict of interest? All right.
18. 19.	time they were inspected?	19.	Good.
20.	MR. GROSS: Last year.	20.	So do I have a motion to accept the
21.	MR. BAUGHMAN: Last year.	$\begin{bmatrix} 20. \\ 21. \end{bmatrix}$	Valero report to allow them to continue the RBI
22.	MR. GROSS: Yeah. We will maintain	22.	program?
23.		23.	MR. BAUGHMAN: So moved.
<ul><li>23.</li><li>24.</li></ul>	our every six-month external inspection during that	24.	MR. PISCHKE: Second.
24. 25.	24-month period. So we will be also continuing our external six-month.	25.	CHAIRMAN MORELOCK: Second? Any more
23.	external six-month.	23.	CHAIRWAN MORELOCK. Second: Any more
	Page 138		Page 140
1.	MR. BAUGHMAN: Good. But the	1.	discussion? All in favor, say, "aye."
2.	internal's gone to 24-month	2.	MR. BAUGHMAN: Aye.
3.	MR. GROSS: That is correct. Yes,	3.	MR. PISCHKE: Aye.
4.	sir.	4.	MR. BOWERS: Aye.
5.	MR. BAUGHMAN: And that's something	5.	MR. FOX: Aye.
6.	that we brought and discussed here previously.	6.	MR. HARGROVE: Aye.
7.	MR. GROSS: Yes, sir.	7.	CHAIRMAN MORELOCK: Opposed?
8.	CHAIRMAN MORELOCK: Jeremy, what RBI	8.	Abstentions? Not voting? Jeremy, thank you for
9.	software are you using?	9.	your report.
10.	MR. GROSS: We use PCMS, which is	10.	MR. GROSS: Thank you.
11.	Plant Condition Monitoring System, and that modules	11.	CHAIRMAN MORELOCK: All right. Our
12.	based off the EPI.	12.	next item is 17-18, Wacker Polysilicon, and they're
13.	CHAIRMAN MORELOCK: Okay. Very good.	13.	going to also present their RBI report to the board,
14.	Any other questions or comments?	14.	as well.
15.	MR. BAUGHMAN: I'd just like to	15.	MR. ENG: Richard Eng, Wacker
13.	congratulate you for obtaining VPP status.	16.	Chemical. Good morning.
15. 16.	congratulate you for obtaining vii status.	17.	MR. HARGROVE: Good morning.
			CHAIRMAN MORELOCK: Good morning.
16. 17.	MR. GROSS: Thank you.		CHAINMAN MONELOCK. Good morning
16.	MR. GROSS: Thank you. CHAIRMAN MORELOCK: Yeah.	18. 19.	_
16. 17. 18. 19.	MR. GROSS: Thank you.	18. 19.	MR. ENG: I would like to present our
16. 17. 18. 19. 20.	MR. GROSS: Thank you. CHAIRMAN MORELOCK: Yeah. MR. BAILEY: That was very hard to do.	18. 19. 20.	MR. ENG: I would like to present our RBI program and provide an update to the board
16. 17. 18. 19. 20. 21.	MR. GROSS: Thank you. CHAIRMAN MORELOCK: Yeah. MR. BAILEY: That was very hard to do. MR. GROSS: Yes, sir. We've got	18. 19. 20. 21.	MR. ENG: I would like to present our RBI program and provide an update to the board members. Perhaps I'll just take a few seconds to
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16. 17. 18. 19. 20. 21. 22. 23.	MR. GROSS: Thank you. CHAIRMAN MORELOCK: Yeah. MR. BAILEY: That was very hard to do. MR. GROSS: Yes, sir. We've got we actually have two of our employees, Tara and Thomas, who you know, Dan.	18. 19. 20. 21. 22. 23.	MR. ENG: I would like to present our RBI program and provide an update to the board members. Perhaps I'll just take a few seconds to recap who we are, what we have done, or not done. Wacker Chemical had a facility built
16. 17. 18. 19. 20. 21. 22.	MR. GROSS: Thank you. CHAIRMAN MORELOCK: Yeah. MR. BAILEY: That was very hard to do. MR. GROSS: Yes, sir. We've got we actually have two of our employees, Tara and	18. 19. 20. 21. 22.	MR. ENG: I would like to present our RBI program and provide an update to the board members. Perhaps I'll just take a few seconds to recap who we are, what we have done, or not done.

	Page 141			Page 143
1.	for polysilicon, meaning that they've been	1.	315 on vessels and equipment, and 109 circuits on	1 age 143
2.	producing this product for quite a while;	2.	the piping system.	
3.	approximately five decades.	3.	For 2018, we anticipate a	
4.	Back in 2015, we commissioned the	4.	continuation of our RBI program in the same	
5.	site, late 2015. And in 2016, early 2016, we	5.	magnitude and similar quantities of equipment that	
6.	operated the site at a steady state. And soon	6.	will be inspected. Since we are down for the	
7.	after, we demonstrated a nameplate capacity of	7.	foreseeable future, we will anticipate to inspect	
8.	20,000 tons of polysilicon.	8.	many more equipment than originally thought.	
9.	Our RBI program started right before	9.	Also, a quick update to the board.	
10.	commissioning, and we made our presentation to the	10.	Between the date of this report and today, we also	
11.	board for them to review our program and provide	11.	inspected about 12 more pieces of equipment: Two	
12.	their technical comments, which we did, and it is	12.	tanks and a tank form, two tanks and a wastewater	
13.	still in place now.	13.	system, two distillation systems, including	
14.	Before I go on to perhaps where we	14.	condensers and reboilers, and two distillation	
15.	are in the RBI program, I would like to make	15.	systems without the condensers and the reboilers,	
16.	mention that currently, the site is not in	16.	and four reactors. So that's in addition to what	
17.	production, and this is a result of an incident	17.	is inspected as of the date of this report.	
18.	that occurred in September.	18.	Also, part of today's update is to	
19.	I think everyone in this room knows	19.	provide information on our baseline readings.	
20.	the severity of the incident, the nature of the	20.	Last year, we took measurements on a number of	
21.	incident, and it is still currently under	21.	equipment to establish baseline thicknesses on the	
22.	investigation. And when the results come out,	22.	equipment that we have selected to monitor.	
23.	we'll be happy to share those findings with the	23.	So if I can ask the board to go to	
24.	members.	24.	the spreadsheet. I think it's the last page on	
25.	So effective September 7th, we have	25.	the report. And you will see some data that we	
	Page 142			Page 144
1.	Page 142 been down and we are still currently not in	1.	have collected.	Page 144
1. 2.	_	1. 2.	have collected.  This is a representative sample	Page 144
1	been down and we are still currently not in	1		Page 144
2.	been down and we are still currently not in production. But there are many other parts of the	2.	This is a representative sample	Page 144
2. 3.	been down and we are still currently not in production. But there are many other parts of the plant that are actually running but not producing	2. 3.	This is a representative sample vessel that we did last year, and we concluded	Page 144
2. 3. 4.	been down and we are still currently not in production. But there are many other parts of the plant that are actually running but not producing product. For instance, the scrubber system's	2. 3. 4.	This is a representative sample vessel that we did last year, and we concluded with a second round of readings this year.	Page 144
2. 3. 4. 5.	been down and we are still currently not in production. But there are many other parts of the plant that are actually running but not producing product. For instance, the scrubber system's operational. Waste water treatment is	2. 3. 4. 5.	This is a representative sample vessel that we did last year, and we concluded with a second round of readings this year.  So if I can just direct the board to	Page 144
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2. 3. 4. 5. 6. 7.	been down and we are still currently not in production. But there are many other parts of the plant that are actually running but not producing product. For instance, the scrubber system's operational. Waste water treatment is operational. Nitrogen is operational. Steam, and so on and so forth. All those are in operation	2. 3. 4. 5. 6. 7.	This is a representative sample vessel that we did last year, and we concluded with a second round of readings this year. So if I can just direct the board to the one, two the fourth column from the right, nominal thickness, and then the third	Page 144
2. 3. 4. 5. 6. 7. 8.	been down and we are still currently not in production. But there are many other parts of the plant that are actually running but not producing product. For instance, the scrubber system's operational. Waste water treatment is operational. Nitrogen is operational. Steam, and so on and so forth. All those are in operation but not producing a particular product.  Even though we're not in operation, our RBI program continues. We are still	2. 3. 4. 5. 6. 7. 8.	This is a representative sample vessel that we did last year, and we concluded with a second round of readings this year. So if I can just direct the board to the one, two the fourth column from the right, nominal thickness, and then the third column from the right, the first round of	Page 144
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	Page 145		Page 14
1.	continuing monitoring at this point and not go any	1.	CHAIRMAN MORELOCK: Okay.
2.	further, but because there were some discrepancies	2.	MR. BAUGHMAN: Any conflicts?
3.	that we felt that we were not comfortable with the	3.	CHAIRMAN MORELOCK: Any conflicts of
4.	first round readings compared to the second round	4.	interest? No. Okay.
5.	readings, we've decided to get another set of data	5.	MR. PISCHKE: I had a question about
6.	which would be verification, the last column, in	6.	your the data that you just presented. When you
7.	August of 2017.	7.	discovered, you know, the variations in the data,
3.	What prompted that was thickness	8.	did you perform a measurement system analysis of
9.	measurement .5. There was a significant	9.	your process to determine that the measurement
Э.	difference between round two and round one. And	10.	process is adequate enough to Level II?
1.	also, on the .18, there was a significant	11.	MR. ENG: It's ASNT, and we use an
2.	difference between round two and round one. So we	12.	outside independent company, TUV. They use a Level
3.	suspect that one was wrong and perhaps not due to	13.	II technician, and I would say it is we requested
4.	a real thickness loss on the vessel.	14.	that the second set of data is taken from the same
5.	So thus, we came back and got	15.	instrument with the same calibration by the same
5.	additional readings on round two. And it confirms	16.	technician, if that answers your question.
7.	our suspicion that the data point was incorrect,	17.	MR. PISCHKE: Kind of.
8.	and I want to capture this so that the board has	18.	MR. ENG: Kind of. Okay.
9.	some additional confidence that what we claim is	19.	MR. PISCHKE: I mean, that's
0.	correct. We are claiming that our process, as we	20.	obviously making things as consistent as can be. Of
1.	operate it, is noncorrosive. And we want to	21.	course, with the time factor, you don't know, you
2.	continue to demonstrate that belief.	22.	know, if there was any variation in the equipment or
3.	Typically, we would stop at this	23.	anything like that. Or if that if the process
4.	point and not continue with additional monitoring	24.	itself is capable of being consistent enough. You
5.	unless there's reason for us to believe there's	25.	know.
	Page 146	_	Page 1
1.	corrosion within the system. We probably, at this	$\mid \mid_{1}$	MR. ENG: The measurement process?
2.	point, will not stop and continue to get round	2.	MR. PISCHKE: Yes.
3.	three numbers and round four numbers and continue	3.	MR. ENG: I'm not sure how to respond
4.	to monitor this vessel and other vessels that are	4.	to that, other than we have examples of the
5.	representative of our plant and our facility.	5.	measurements provided by TUV, and it has all the
6.	This is a representation only, and we	6.	necessary information to ensure some degree of
7.	have dozens and dozens of other vessels with the	7.	accuracy.
8.	same data points that we have collected. So it's	8.	MR. PISCHKE: I'm just wondering why
9.	empirical data from the field; it's data-intensive	9.	the variation. Can we explain off the variation?
0.	for perhaps Dr. Hargrove to make some additional	10.	MR. ENG: I would like to say perhaps
1.	comments (verbatim).	11.	operator error is one.
2.	That is all I have for today at this	12.	MR. PISCHKE: That's part of the
3.	moment. So I'm open to the board for any	13.	measurement system analysis.
4.	questions that may come up.	14.	MR. ENG: And thus we review all the
 5.	CHAIRMAN MORELOCK: Okay. What	15.	data points that go into our database so that we can
6.	comments does the board have?	16.	catch these inconsistencies and then get validation
7.	MR. PISCHKE: Do we need a motion to	17.	on these differences.
, . 8.	discuss or	18.	But I don't think I answered your
). 9.	CHAIRMAN MORELOCK: Sure, we can do	19.	question, but that's
0.	that. But I mean yeah. Yeah, a motion to	20.	MR. PISCHKE: I'm no. I'm getting
1.	discuss?	21.	a picture, you know, of the process that you're
2.	MR. PISCHKE: Yeah. I move to	22.	incorporating. I would recommend evaluating the
3.	discuss.	23.	process a little deeper to understand the variation,
<i>3</i> . 4.	CHAIRMAN MORELOCK: Second?	24.	so that, moving forward, you know, if there is any
5.	MR. FOX: Second.	25.	variation, you say, yeah, this is why.
<i>-</i> .		1	***

	Page 149		Page 151
1.	MR. ENG: Okay.	1.	MR. ROBINSON: Absolutely.
2.	MR. PISCHKE: And owners understand.	2.	MR. PISCHKE: And so that will tell
3.	MR. ENG: Sure.	3.	you where your variation is, whether it be the
4.	MR. PISCHKE: That's my only	4.	operator or the equipment or the environment, you
5.	recommendation.	5.	know, the temperatures at which you're measuring,
6.	MR. ROBINSON: Can I make a comment?	6.	things like that. Any variation that will point
7.	CHAIRMAN MORELOCK: Yeah. Chip had	7.	you in the right direction.
8.	his hand up.	8.	MR. ROBINSON: Yes, sir.
9.	MR. ESKRIDGE: I'm sorry. Open	9.	MR. ENG: Just to comment on this
10.	meeting, I thought I'd make a comment.	10.	whole discussion here. We took the measurements in
111.	MR. ROBINSON: Please do.	111.	2015 as the first set of measurements. We assumed
12.	MR. ESKRIDGE: When we have these	12.	those to be correct to start out, right?
13.	kind of deviations from inspectors, it's not	13.	So we took the second set in April of
14.	uncommon for us to ask for a reinspection of those	14.	2017 and realized there were two points that were
15.	locations, if it's operator we think it's	15.	inconsistent.
16.	operator error, especially if it's an external	16.	MR. ROBINSON: Yes, sir.
17.	inspection.	17.	MR. ENG: Okay. And what we noticed
18.	MR. ROBINSON: And just	18.	was that if you go to the to this photo here
19.	MR. BAILEY: Wait, wait. State your	19.	MR. ROBINSON: Yes, sir.
20.	name for the record.	20.	MR. ENG: right? There are two
21.	THE REPORTER: Yes, please.	21.	points underneath the structure that was difficult
22.	MR. ESKRIDGE: Chip Eskridge.	22.	to access, we realized later on. And therefore,
23.	MR. ROBINSON: And just for your own	23.	there were some variations on the angle of the probe
24.	knowledge, repeatability by using the same machine	24.	and perhaps caused this that's why we went back
25.	technically isn't required. That's the whole	25.	with our supervision to ensure that it's consistent.
25.	technically isn't required. That's the whole		with our supervision to ensure that it's consistent.
	Page 150	<del>                                     </del>	Page 152
1.	Page 150 purpose of the process.	1.	Page 152 MR. ROBINSON: Yes, sir. And that's
1. 2.	purpose of the process.	1. 2.	Page 152 MR. ROBINSON: Yes, sir. And that's understandable.
1	purpose of the process.  Just so you know, when that		MR. ROBINSON: Yes, sir. And that's understandable.
2.	purpose of the process.  Just so you know, when that particular inspection method is applied, the	2.	MR. ROBINSON: Yes, sir. And that's understandable. MR. PISCHKE: And if you evaluate
2. 3.	purpose of the process.  Just so you know, when that particular inspection method is applied, the set-up is more important than the equipment. And	2. 3.	MR. ROBINSON: Yes, sir. And that's understandable.  MR. PISCHKE: And if you evaluate that, then perhaps maybe you might want to look at a
2. 3. 4.	purpose of the process.  Just so you know, when that particular inspection method is applied, the	2. 3. 4.	MR. ROBINSON: Yes, sir. And that's understandable.  MR. PISCHKE: And if you evaluate that, then perhaps maybe you might want to look at a different type of probe that is a little more
2. 3. 4. 5.	purpose of the process.  Just so you know, when that particular inspection method is applied, the set-up is more important than the equipment. And when I say that, you use known calibration blocks,	2. 3. 4. 5.	MR. ROBINSON: Yes, sir. And that's understandable.  MR. PISCHKE: And if you evaluate that, then perhaps maybe you might want to look at a
2. 3. 4. 5. 6.	purpose of the process.  Just so you know, when that particular inspection method is applied, the set-up is more important than the equipment. And when I say that, you use known calibration blocks, known test standards, and you record that	2. 3. 4. 5. 6.	MR. ROBINSON: Yes, sir. And that's understandable.  MR. PISCHKE: And if you evaluate that, then perhaps maybe you might want to look at a different type of probe that is a little more forgiving
2. 3. 4. 5. 6. 7.	purpose of the process.  Just so you know, when that particular inspection method is applied, the set-up is more important than the equipment. And when I say that, you use known calibration blocks, known test standards, and you record that information so if there is a variation, you can go	2. 3. 4. 5. 6. 7.	MR. ROBINSON: Yes, sir. And that's understandable.  MR. PISCHKE: And if you evaluate that, then perhaps maybe you might want to look at a different type of probe that is a little more forgiving  MR. ENG: Yeah, yeah. Sure.
2. 3. 4. 5. 6. 7. 8.	purpose of the process.  Just so you know, when that particular inspection method is applied, the set-up is more important than the equipment. And when I say that, you use known calibration blocks, known test standards, and you record that information so if there is a variation, you can go back and repeat the scenario.	2. 3. 4. 5. 6. 7. 8.	MR. ROBINSON: Yes, sir. And that's understandable.  MR. PISCHKE: And if you evaluate that, then perhaps maybe you might want to look at a different type of probe that is a little more forgiving  MR. ENG: Yeah, yeah. Sure.  MR. PISCHKE: in the angle and
2. 3. 4. 5. 6. 7. 8. 9.	purpose of the process.  Just so you know, when that particular inspection method is applied, the set-up is more important than the equipment. And when I say that, you use known calibration blocks, known test standards, and you record that information so if there is a variation, you can go back and repeat the scenario.  It's and it sounds like to me	2. 3. 4. 5. 6. 7. 8. 9.	MR. ROBINSON: Yes, sir. And that's understandable.  MR. PISCHKE: And if you evaluate that, then perhaps maybe you might want to look at a different type of probe that is a little more forgiving  MR. ENG: Yeah, yeah. Sure.  MR. PISCHKE: in the angle and things like that. That's just a suggestion.
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2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	purpose of the process.  Just so you know, when that particular inspection method is applied, the set-up is more important than the equipment. And when I say that, you use known calibration blocks, known test standards, and you record that information so if there is a variation, you can go back and repeat the scenario.  It's and it sounds like to me forgive me. It sounds like to me you had a big length and when you took the measurement and then realized that you had a deviation. You may want to get a little proactive in real-time in doing that. Okay?  Again, if you have any questions, point back to the Chief to direct you to Section 5 or question don't be afraid to question that Level II technician, because that's a big deviation.  MR. PISCHKE: And just to expand on MR. ROBINSON: Please.	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	MR. ROBINSON: Yes, sir. And that's understandable.  MR. PISCHKE: And if you evaluate that, then perhaps maybe you might want to look at a different type of probe that is a little more forgiving  MR. ENG: Yeah, yeah. Sure.  MR. PISCHKE: in the angle and things like that. That's just a suggestion.  MR. ENG: Well, actually, we may take a different location, so it's easier to get to.  MR. PISCHKE: Sure.  MR. ENG: Understood.  MR. ROBINSON: One other observation,  Mr. Eng. Very nice report.  MR. PISCHKE: Yeah.  MR. ROBINSON: If possible, could you add the Tennessee number, if assigned to that particular vessel?  MR. ENG: Sure.  MR. ROBINSON: That way, we could track it in our database as well.
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	Page 153		Page 155
1.	come from? Was that a new one	l <sub>1.</sub>	CHAIRMAN MORELOCK: Right. Right.
2.	MR. ENG: The engineer gave it to me.	2.	But just know that that has issues.
	I suspect it's from the material and grader	3.	MR. ENG: Okay. Would you like to
	specification.	4.	CHAIRMAN MORELOCK: Yeah. They
5.	CHAIRMAN MORELOCK: Okay.	5.	well, they only recognize two stress tables.
6.	MR. ENG: Published information.	6.	MR. ENG: Oh, in Meridium. Yes, I
7.	CHAIRMAN MORELOCK: Because, you	7.	CHAIRMAN MORELOCK: Yes.
	know, I don't know I'm not going to belabor the	8.	MR. ENG: Yeah. Yes. I recall.
	point, but I mean, by the time you if it's just a	9.	CHAIRMAN MORELOCK: And so and
	published value, not a measured value, it you	10.	every calculation they do is based off of a
	know, with plate undertolerance and all that in the	11.	cylinder, so it's got issues. I wouldn't hang my
	code	12.	hat on that one.
13.	MR. ENG: Yeah. Yeah.	13.	MR. ENG: We don't.
		14.	
14.	CHAIRMAN MORELOCK: I don't		CHAIRMAN MORELOCK: Okay.
	that value's really not very meaningful to you until	15.	MR. ENG: Okay.
	you actually measure it.	16.	CHAIRMAN MORELOCK: So it is an
17.	MR. ENG: That's correct. Yeah.	17.	excellent report, and I know what your situation is
18.	CHAIRMAN MORELOCK: So	18.	right now. But as you move forward, you know, we
19.	MR. ENG: We wanted to make sure we	19.	would like to see ridge ranking, damage
	went three times nominal	20.	mechanisms
21.	CHAIRMAN MORELOCK: Yeah.	21.	MR. ENG: Sure.
22.	MR. ENG: with something like	22.	CHAIRMAN MORELOCK: all that
	that.	23.	information as you come back with your report when
24.	CHAIRMAN MORELOCK: Yeah. I think	24.	the facility is operating, and just to kind of give
25.	MR. ENG: So we'll delete that next	25.	us an idea. Especially if you're going to try to
	Page 154		Page 156
1.	time. We'll add the tag number next time.	1.	state that the process is noncorrosive, you're going
2.	MR. ROBINSON: Yes, sir.	2.	to need a little more ammunition to make that
3.	CHAIRMAN MORELOCK: Any other	3.	happen.
4.	questions? Okay.	4.	MR. ENG: Yeah. That's what we're
5.	MR. ROBINSON: Just one last one. I	5.	trying to demonstrate longterm.
6.	noticed on all the UT reports, you add a .5 as	6.	CHAIRMAN MORELOCK: Okay.
7.	nominal thickness.	7.	MR. ENG: Yeah.
8.	MR. ENG: All the UT reports?	8.	CHAIRMAN MORELOCK: That's all I
9.	MR. ROBINSON: Yes. It was .5.	9.	have. Anything else?
10.	MR. ENG: Oh, okay.	10.	Do I have a motion to accept Wacker's
11.	MR. ROBINSON: It probably would be	11.	report and give them permission to continue their
12.	beneficial to put the actual Tmin on that somewhere.	12.	RBI program?
	I saw Tmin in your column on your spreadsheet.	13.	MR. PISCHKE: So moved.
14.	MR. ENG: Uh-huh.	14.	MR. BAUGHMAN: Second.
15.	MR. ROBINSON: But it was almost like	15.	CHAIRMAN MORELOCK: Okay. Any more
	the tester didn't know exactly what he was looking	16.	discussion? All in favor, say, "aye."
	for.	17.	MR. PISCHKE: Aye.
18.	MR. ENG: Okay. I'll make a note of	18.	MR. BAUGHMAN: Aye.
	that, sir.	19.	MR. BOWERS: Aye.
-/-		20.	MR. FOX: Aye.
20.			•
20. 21.	CHAIRMAN MORELOCK: So are you	21.	MR. HARGROVE: Ave.
21.	CHAIRMAN MORELOCK: So are you calculating Tmin or is somebody calculating that for	l	MR. HARGROVE: Aye. CHAIRMAN MORELOCK: Opposed?
21. 22.	CHAIRMAN MORELOCK: So are you calculating Tmin or is somebody calculating that for you?	22.	CHAIRMAN MORELOCK: Opposed?
<ul><li>21.</li><li>22.</li><li>23.</li></ul>	CHAIRMAN MORELOCK: So are you calculating Tmin or is somebody calculating that for you?  MR. ENG: Somebody else is	22. 23.	CHAIRMAN MORELOCK: Opposed? Abstentions? Not voting? Richard, thank you for
<ul><li>21.</li><li>22.</li><li>23.</li><li>24.</li></ul>	CHAIRMAN MORELOCK: So are you calculating Tmin or is somebody calculating that for you?  MR. ENG: Somebody else is calculating this Tmin, and there's another Tmin	22. 23. 24.	CHAIRMAN MORELOCK: Opposed? Abstentions? Not voting? Richard, thank you for your report.
<ul><li>21.</li><li>22.</li><li>23.</li><li>24.</li></ul>	CHAIRMAN MORELOCK: So are you calculating Tmin or is somebody calculating that for you?  MR. ENG: Somebody else is	22. 23.	CHAIRMAN MORELOCK: Opposed? Abstentions? Not voting? Richard, thank you for
21. 22. 23. 24.	CHAIRMAN MORELOCK: So are you calculating Tmin or is somebody calculating that for you?  MR. ENG: Somebody else is calculating this Tmin, and there's another Tmin	22. 23. 24. 25.	CHAIRMAN MORELOCK: Opposed? Abstentions? Not voting? Richard, thank you for your report. MR. ENG: Thank you.

1	Page 15	57	Page 15
1.	CHAIRMAN MORELOCK: Our next item is	1.	If has been completely installed. We are
2.	17-19. West Tennessee Healthcare is requesting a	2.	currently using it. Although we're on the
3.	variance for four high-pressure boilers.	3.	20-minute rule, we're using all the features. We
4.	Just come forward and introduce	4.	have a remote station.
5.	yourselves and present your manual.	5.	We also have a Johnson Controls
6.	MR. BUTLER: Good morning.	6.	Metasys system that integrates to this. At the
7.	MR. BAUGHMAN: Good morning.	7.	same time the remote station is alerted, it pages
8.	MR. ROBINSON: Good morning, sir.	8.	three on-call people, as well as myself. There's
9.	MR. BUTLER: My name is Larry Butler.	9.	another plant operations manager as well. He's
10.	I'm the executive director of facilities at	10.	contacted as well; all simultaneously.
11.	Jackson-Madison County General Hospital and West	11.	CHAIRMAN MORELOCK: All right. Now,
12.	Tennessee Healthcare.	12.	do I have a motion to discuss?
13.	MR. JONES: I'm Mark Jones. I'm the	13.	MR. BAUGHMAN: So moved.
14.	plant operations manager at Jackson-Madison Count	14.	MR. PISCHKE: Second.
15.	General Hospital.	15.	CHAIRMAN MORELOCK: All right.
16.	MR. BUTLER: We would like to thank	16.	MR. BAILEY: Any conflicts?
10. 17.	you for allowing us to come here before the board.	17.	MR. HARGROVE: Conflict of interest?
17. 18.	Just a little back story. We have been operating	18.	CHAIRMAN MORELOCK: Any conflicts of
10. 19.	under a boiler attendant variance since our new	19.	interest? All right. Thank you. All right. So
19. 20.	central energy plant was commissioned back in 2006,	20.	all in favor, say, "aye."
		21.	
21.	at what time we had a Hawk ISC control system.		MR. PISCHKE: Aye.
22.	Earlier this year, Mark was meeting	22.	MR. HARGROVE: Aye.
23.	with a Cleaver-Brooks representative and he'd	23.	MR. BAUGHMAN: Aye.
24.	informed us that our ISE system is day or	24.	MR. BOWERS: Aye.
25.	sunsetting, or about to not be able to get any	25.	MR. FOX: Aye.
	Page 15	58	Page 10
1.	parts. So at which time we needed to upgrade	1.	CHAIRMAN MORELOCK: Opposed?
2.	update our control system.	2.	Abstentions? Not voting? All right.
3.	Being a public entity as we are,	3.	The floor is open for comments and
4.	we're owned by the Jackson City of Jackson and	4.	questions.
5.	Madison County. It takes us a while to get	5.	MR. HARGROVE: What's the age of all
6.	funding, so in February our fiscal year ends in	6.	four of those or when they were manufactured?
7.	June. And so consequently, at that time we were	7.	MR. JONES: 2006.
8.	in the budget process, so Mark obtained pricing	8.	MR. HARGROVE: All of them?
9.	from Cleaver-Brooks Power Equipment out of	9.	MR. JONES: The boilers?
1.	Memphis. And so we were approved in late June.	10.	MR. HARGROVE: All of them.
10		1 117.	
11.	And so frankly, we started the	11.	MR. JONES: Yes, sir. That central
11. 12.	And so frankly, we started the process in July, recognizing that since we were	11. 12.	MR. JONES: Yes, sir. That central energy plant was built all at one time.
11. 12. 13.	And so frankly, we started the process in July, recognizing that since we were sunsetting on our controls and we wanted to	11. 12. 13.	MR. JONES: Yes, sir. That central energy plant was built all at one time.  MR. HARGROVE: All at one time.
11. 12. 13. 14.	And so frankly, we started the process in July, recognizing that since we were sunsetting on our controls and we wanted to maintain continuity in operations (verbatim).	11. 12. 13. 14.	MR. JONES: Yes, sir. That central energy plant was built all at one time.  MR. HARGROVE: All at one time.  MR. JONES: Yes, sir. Prior to that,
11. 12. 13. 14.	And so frankly, we started the process in July, recognizing that since we were sunsetting on our controls and we wanted to maintain continuity in operations (verbatim).  So we've just recently completed the	11. 12. 13. 14. 15.	MR. JONES: Yes, sir. That central energy plant was built all at one time.  MR. HARGROVE: All at one time.  MR. JONES: Yes, sir. Prior to that, we were on a we had another central energy plant
11. 12. 13. 14. 15.	And so frankly, we started the process in July, recognizing that since we were sunsetting on our controls and we wanted to maintain continuity in operations (verbatim).  So we've just recently completed the upgrade, and we since we have changed the	11. 12. 13. 14. 15.	MR. JONES: Yes, sir. That central energy plant was built all at one time.  MR. HARGROVE: All at one time.  MR. JONES: Yes, sir. Prior to that, we were on a we had another central energy plant that had some boilers that were 30-something years
11. 12. 13. 14. 15. 16.	And so frankly, we started the process in July, recognizing that since we were sunsetting on our controls and we wanted to maintain continuity in operations (verbatim).  So we've just recently completed the upgrade, and we since we have changed the equipment, it is obvious that we need to update	11. 12. 13. 14. 15. 16.	MR. JONES: Yes, sir. That central energy plant was built all at one time.  MR. HARGROVE: All at one time.  MR. JONES: Yes, sir. Prior to that, we were on a we had another central energy plant that had some boilers that were 30-something years old. They as well were on a variance that were
11. 12. 13. 14. 15. 16. 17.	And so frankly, we started the process in July, recognizing that since we were sunsetting on our controls and we wanted to maintain continuity in operations (verbatim).  So we've just recently completed the upgrade, and we since we have changed the equipment, it is obvious that we need to update our variance. And so that is why we appear before	11. 12. 13. 14. 15. 16. 17. 18.	MR. JONES: Yes, sir. That central energy plant was built all at one time.  MR. HARGROVE: All at one time.  MR. JONES: Yes, sir. Prior to that, we were on a we had another central energy plant that had some boilers that were 30-something years old. They as well were on a variance that were granted to us in '99, and then we built this new
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111. 112. 113. 114. 115. 116. 117. 118. 119.	And so frankly, we started the process in July, recognizing that since we were sunsetting on our controls and we wanted to maintain continuity in operations (verbatim).  So we've just recently completed the upgrade, and we since we have changed the equipment, it is obvious that we need to update our variance. And so that is why we appear before you, and again, thank you for that.  MR. JONES: We began our upgrade	11. 12. 13. 14. 15. 16. 17. 18. 19. 20.	MR. JONES: Yes, sir. That central energy plant was built all at one time.  MR. HARGROVE: All at one time.  MR. JONES: Yes, sir. Prior to that, we were on a we had another central energy plant that had some boilers that were 30-something years old. They as well were on a variance that were granted to us in '99, and then we built this new plant.  We reverted to the 20-minute rule
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10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 220. 221. 222. 23.	And so frankly, we started the process in July, recognizing that since we were sunsetting on our controls and we wanted to maintain continuity in operations (verbatim).  So we've just recently completed the upgrade, and we since we have changed the equipment, it is obvious that we need to update our variance. And so that is why we appear before you, and again, thank you for that.  MR. JONES: We began our upgrade October the 9th is when we started the upgrade of the controls. We reverted to the 20-minute rule at	11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21.	MR. JONES: Yes, sir. That central energy plant was built all at one time.  MR. HARGROVE: All at one time.  MR. JONES: Yes, sir. Prior to that, we were on a we had another central energy plant that had some boilers that were 30-something years old. They as well were on a variance that were granted to us in '99, and then we built this new plant.  We reverted to the 20-minute rule when the new plant was built in '06. We were granted the variance, I think, in early '07 on
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Page 163  MR. BAUGHMAN: So maximum input of all the units, 24,000,494, but it's not maxed of all in other words, is that per each unit?  MR. JONES: I think that's per each.  MR. BUTLER: Per each.  MR. BAUGHMAN: Okay. I just want to have that clarification. And the same thing with the maximum output. It doesn't show any figures on that for an output. We do have the serial numbers identified for each one, and Tennessee numbers.  What type of feedwater system? We have no data on whether you've got a DA system  MR. JONES: We do have a DA.
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MR. BAUGHMAN: which I'm
anticipating you do.
MR. JONES: We do.
MR. BAUGHMAN: We'd like to see it
included
MR. JONES: Okay.
MR. BAUGHMAN: in the information.
The ICS I thought it was interesting a
previous discussion earlier, the boilers had the ICS
on them. They're obviously being "obsoleted" out
and new systems being put in place.
Is any of this monitoring via
is any of this monitoring via
Page 164
web-based?
MR. JONES: The remote station is
not. The remote station is hardwired. The
contacting once the remote station is notified,
they turn it off.
They contact the boiler attendant via
radio or phone. The boiler attendant is notified,
though, via web-based through the Metasys system,
as well as a back up.
MR. BAUGHMAN: Okay.
MR. JONES: So he most of the time
knows it before they call him.
MR. BAUGHMAN: Very good. So there's
an e-stop at a point of egress or points of egress
at the boiler room also?
MR. JONES: Yeah. There's one on
outside of the building.
MR. BAUGHMAN: Do they shut all four
boilers down?
MR. JONES: Yes.
MR. BAUGHMAN: Okay.
CHAIRMAN MORELOCK: Any other
questions, comments?
I just have a few.
MR. BUTLER: Okay.
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	Page 16	5		Page 167
1.	CHAIRMAN MORELOCK: On Page 3, the	1.	security department, are these full-time employees	2 -
2.	first paragraph, the last sentence, just a	2.	or are these outsourced (verbatim)?	
3.	consistency in your terminology that the boiler	3.	MR. JONES: No. They're full-time	
4.	operator should be boiler attendant, because the	4.	employees.	
5.	rest of your manual says boiler attendant.	5.	MR. PISCHKE: Okay.	
6.	MR. JONES: Okay.	6.	MR. JONES: Around the clock.	
7.	CHAIRMAN MORELOCK: On Page 5, as	7.	MR. PISCHKE: Okay.	
8.	we've noted on the other manuals, as well, Item 2 at	8.	CHAIRMAN MORELOCK: Any other	
9.	the bottom of Page 5. If the system is not	9.	questions? Okay.	
10.	functioning properly, the boiler attendant shall	10.	MR. BAUGHMAN: And just to	
11.	attend the boiler, and then add, per rule	111.	CHAIRMAN MORELOCK: Go ahead.	
12.	0800-03-0308(11), until the problem is corrected,	12.	MR. BAUGHMAN: Just to reiterate,	
13.	so it'll revert back to the 20-minute rule.	13.	under the equipment description for the variance, I	
14.	On Page 6 again, this is just	14.	know I just asked about the web-based, but it shows	
15.	terminology here. Your wording is good. Just on	15.	that the equipment description shows, for one,	
16.	Item 4, under emergency duties, you say security	16.	under the Hawk 4000, a 10-inch touchscreen with	
17.	officer, and that's who the remote station	17.	integrated web server and password-protected to	
18.	personnel is, but you probably ought to put remote	18.	prevent unauthorized access.	
19.	station personnel or security officer/remote	19.	Who has the password?	
20.	station personnel so your terminology is correct.	20.	MR. JONES: Plant operations manager.	
21.	And the same on Item 6. If the	21.	That'd be myself and the other manager.	
22.	security officer is unable to communicate with the	22.	MR. BAUGHMAN: And you do have	
23.	boiler attendant, you could put either remote	23.	that	
24.	station personnel or security officer/remote	24.	MR. JONES: I do have it.	
25.	station personnel, just for clarity.	25.	MR. BAUGHMAN: Super. But then on	
	Page 16	6		Page 16
1.	Your emergency procedures on	1.	down, it still lists the personal computer, the	Ü
2.	Page 8 and it is not highlighted or tabbed for	2.	Johnson's Control Metasys interface.	
3.	ease of finding it in the event of an emergency.	3.	MR. JONES: Yes, sir.	
4.	I know you have a placard out there. I know that.	4.	MR. BAUGHMAN: And you say that is	
5.	Go ahead and highlight that in your	5.	used only for what purpose?	
6.	manual as well. Who provides training to the	6.	MR. JONES: That's only used	
7.	boiler attendants?	7.	really used as a backup. That's what pages the	
8.	MR. JONES: We do.	8.	on-call or on-duty boiler attendant, and it pages	
9.	CHAIRMAN MORELOCK: Okay.	9.	myself and the other plant operations manager.	
و. 10.	MR. JONES: Plant operations.	10.	MR. BAUGHMAN: And how is it used as	
10. 11.	MR. BUTLER: Plant operations.	11.	a backup? What's the primary?	
11. 12.	CHAIRMAN MORELOCK: Make sure that's	11.		
	in the manual and that's clarified as well. I mean,		MR. JONES: When the Hawk goes into	
2	you've got the remote station training in there.	13.	alarm the Hawk is integrated to this system.	
	VILLE OF THE PROPERTY OF STATE OF TRAINING IN THATA	14.	When the Hawk goes in alarm, it not only alarms at	
4.	•		the remote station, it sends an alarm through the	
14. 15.	MR. JONES: Yeah.	15.	-	
14. 15. 16.	MR. JONES: Yeah. CHAIRMAN MORELOCK: And then in	16.	Metasys system and it sends out a page, like a group	
14. 15. 16.	MR. JONES: Yeah. CHAIRMAN MORELOCK: And then in Appendix G for job descriptions, I don't see any job	16. 17.	Metasys system and it sends out a page, like a group page to three on-call boiler attendants, as well as	
14. 15. 16. 17.	MR. JONES: Yeah.  CHAIRMAN MORELOCK: And then in  Appendix G for job descriptions, I don't see any job descriptions for the boiler attendant duties for	16. 17. 18.	Metasys system and it sends out a page, like a group page to three on-call boiler attendants, as well as myself and the other manager. And that's 24 hours a	
14. 15. 16. 17. 18.	MR. JONES: Yeah. CHAIRMAN MORELOCK: And then in Appendix G for job descriptions, I don't see any job descriptions for the boiler attendant duties for plant operation manager and maintenance mechanics	16. 17. 18. 19.	Metasys system and it sends out a page, like a group page to three on-call boiler attendants, as well as myself and the other manager. And that's 24 hours a day.	
14. 15. 16. 17. 18. 19.	MR. JONES: Yeah.  CHAIRMAN MORELOCK: And then in Appendix G for job descriptions, I don't see any job descriptions for the boiler attendant duties for plant operation manager and maintenance mechanics one, two, and three. If they're the serving the	16. 17. 18. 19. 20.	Metasys system and it sends out a page, like a group page to three on-call boiler attendants, as well as myself and the other manager. And that's 24 hours a day.  CHAIRMAN MORELOCK: So it's dual	
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14. 15. 16. 17. 18. 19. 20. 21. 22.	MR. JONES: Yeah.  CHAIRMAN MORELOCK: And then in Appendix G for job descriptions, I don't see any job descriptions for the boiler attendant duties for plant operation manager and maintenance mechanics one, two, and three. If they're the serving the boiler attendant, you need to note that in their job descriptions. And that's all the comments I have. Yes.	16. 17. 18. 19. 20. 21. 22. 23.	Metasys system and it sends out a page, like a group page to three on-call boiler attendants, as well as myself and the other manager. And that's 24 hours a day.  CHAIRMAN MORELOCK: So it's dual notification?  MR. JONES: It is. It's just kind of but we use it as a backup. Most of the time,	

	Page 169		Page 171
1.	Alpha pager. It'll say, boiler one, high water	l <sub>1.</sub>	Second? I have a second. Any comments? I'm going
2.	alarm.	2.	to call the question. All in favor, say, "aye."
3.	MR. BAUGHMAN: Uh-huh.	3.	MR. PISCHKE: Aye.
4.	MR. JONES: Now, the remote	4.	MR. HARGROVE: Aye.
<del>5</del> .	station he does not know what the alarm is. He	5.	MR. BAUGHMAN: Aye.
<i>5</i> .	knows it went into alarm. He's got an audible and a	6.	MR. BOWERS: Aye.
7.	light and he turns it off, but he doesn't know if	7.	•
		8.	MR. FOX: Aye.
8.	it's high or low. But our guy knows by the time he		CHAIRMAN MORELOCK: Opposed?
9.	gets there, I'm dealing with high, low; I'm dealing with something.	9.	Abstentions? Not voting? Gentlemen, you have a
10.	<u> </u>	10.	contingently approved variance.
11.	MR. BAUGHMAN: Very good. Thank you.	11.	MR. JONES: Thank you for your time.
12.	MR. JONES: Uh-huh. Yes, sir.	12.	MR. BUTLER: Thank you very much.
13.	CHAIRMAN MORELOCK: Any other	13.	CHAIRMAN MORELOCK: Thank you. That
14.	questions?	14.	concludes our new business. We'll move now into
15.	MR. BAUGHMAN: Are you operating one	15.	Item 9, which is open discussion items.
16.	or two DAs?	16.	Our first item is status of the 2018
17.	MR. JONES: Just one.	17.	Tennessee Boiler Safety Conference.
18.	MR. BAUGHMAN: Okay.	18.	MS. RHONE: Deborah Rhone. Okay.
19.	MR. JONES: We have a in the site	19.	Yes. Regarding the 2018 Boiler Safety Conference,
20.	plan, you'll see a two the second DA there.	20.	we have received approval to host that conference,
21.	MR. BAUGHMAN: Yes.	21.	which this year, it will include the deputy and
22.	MR. JONES: We're actually using that	22.	special inspectors via the insurance companies.
23.	just as a flash tank. We're just flashing our	23.	MR. BAUGHMAN: Super.
24.	condensate there and pumping it over.	24.	MS. RHONE: And planning will begin
25.	MR. BAUGHMAN: But it's still a	25.	next quarter.
	Page 170		Page 172
1.	pressure code vessel?	1.	CHAIRMAN MORELOCK: Oh, excellent.
2.	MR. JONES: It is.	2.	MR. BAUGHMAN: Fantastic.
3.	MR. BAUGHMAN: Okay. Yeah. I would	3.	MS. RHONE: So okay. All right.
4.	like that in the equipment description, not that	4.	Thank you.
5.	it's mandatory	5.	MR. ESKRIDGE: Quick question, when
6.	MR. JONES: Okay.	6.	is that conference?
7.	MR. BAUGHMAN: as part of the	7.	MS. RHONE: It's in the fall.
8.	variance, but since they're both on the site plan	8.	MR. ESKRIDGE: Has it
9.	and they're both identified, not as a flash tank,	9.	MS. RHONE: We have a tentative date
10.	but as a	10.	in September. Yes, it's usually the third week in
		l	*
<ul><li>11.</li><li>12.</li></ul>	MR. JONES: As a DA. MR. BAUGHMAN: deaerator.	11. 12.	September.  MR ESKRIDGE: How many days is it?
		l	MR. ESKRIDGE: How many days is it?
13.	MR. JONES: It's actually a DA.	13.	MS. RHONE: It'll be two and a half
14.	We're just using it as flash.	14.	days for the inspectors. We usually host some
15.	MR. BAUGHMAN: Okay. Thank you.	15.	training for our state inspectors; the first portion
16.	MR. JONES: Uh-huh.	16.	of it.
17.	CHAIRMAN MORELOCK: All right.	17.	MR. ESKRIDGE: And maybe I should
18.	Anything else? All right. Then do I have a motion	18.	have asked first. Is it open to the public?
19.	for contingent approval of this variance based upon	19.	MS. RHONE: Yes.
20.	revisions to the manual to incorporate Tennessee	20.	MR. ESKRIDGE: Okay. Good. Thank
21.	Board's comments and a successful site inspection by	21.	you.
22.	the Chief Inspector?	22.	MS. RHONE: Okay. All right. Thank
23.	MR. PISCHKE: So moved.	23.	you.
24.	MR. BAUGHMAN: Second.	24.	CHAIRMAN MORELOCK: I will add that
25.	CHAIRMAN MORELOCK: We have a motion.	25.	it's a very good conference.
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	Page 173	Г	Page 175
1.	MR. ESKRIDGE: Yeah.	1.	special inspectors are insurance inspectors must
2.	MR. PISCHKE: Yes.	2.	be administered by the National Board I'll just
3.	CHAIRMAN MORELOCK: It really is.	3.	abbreviate that National Board member
4.	MR. ESKRIDGE: Very good. In	4.	jurisdiction, and that's Tennessee, in the event
5.	Nashville?	5.	that we have a chief (verbatim). And you all may
6.	CHAIRMAN MORELOCK: That's very	6.	remember previously when we didn't have a chief, we
7.	exciting.	7.	couldn't administer the exam.
8.	MR. ESKRIDGE: Nashville?	8.	CHAIRMAN MORELOCK: Right.
9.	MS. RHONE: Yes. Nashville.	9.	MS. JEFFERSON: So that's just
10.	CHAIRMAN MORELOCK: Does anybody have	10.	clarity there. In the event that we don't have a
11.	any more questions? All right. Thank you very	11.	chief, another alternative would be the National
12.	much, Deborah. That's a great report. Good, great	12.	Board during the last day of the in-service
13.	news.	13.	commission, the two-week course and we just had
14.	Our next item is update on	14.	one of our inspectors to actually attend that
15.	administering the National Board Commission Exam,	15.	course, and that was Justin. What's Justin's last
16.	and the board members have a handout for that.	16.	name?
17.	And has this been revised slightly from what	17.	MR. CHAPMAN: Justin Simpson.
18.	was the red line copy that was sent in?	18.	MS. JEFFERSON: Justin Simpson. He
19.	MS. JEFFERSON: It's been revised	19.	actually attended that course. So that's another
20.	several times.	20.	alternative for us. The next alternative is the
21.	CHAIRMAN MORELOCK: Okay.	21.	on-demand provider approved by the National Board.
22.	MS. JEFFERSON: Yes, it has. It has.	22.	And an example of that is H&R Block. That's the
23.	As we all know, the boiler law dates back to the	23.	current.
24.	1970s, so this was the department's attempt to clean	24.	And the final is the other testing
25.	up the law	25.	methods that are approved by the National Board in
			3
1			
	Page 174	t	Page 176
1	Page 174 CHAIRMAN MORELOCK: Okay	1	Page 176 the future. So that's a catch-all clause, because
1.	CHAIRMAN MORELOCK: Okay.	1.	the future. So that's a catch-all clause, because
2.	CHAIRMAN MORELOCK: Okay.  MS. JEFFERSON: and to make some	2.	the future. So that's a catch-all clause, because we understand that something else, something more
1	CHAIRMAN MORELOCK: Okay.  MS. JEFFERSON: and to make some clarifications in the law, because things have	1	the future. So that's a catch-all clause, because we understand that something else, something more innovative may occur in future years. So we just
2. 3.	CHAIRMAN MORELOCK: Okay.  MS. JEFFERSON: and to make some clarifications in the law, because things have changed since then. And with the board's help,	2. 3. 4.	the future. So that's a catch-all clause, because we understand that something else, something more innovative may occur in future years. So we just wanted to have a provision for that.
2. 3. 4. 5.	CHAIRMAN MORELOCK: Okay.  MS. JEFFERSON: and to make some clarifications in the law, because things have changed since then. And with the board's help, along with the Boiler Unit, the Chief and the deputy	2. 3. 4. 5.	the future. So that's a catch-all clause, because we understand that something else, something more innovative may occur in future years. So we just wanted to have a provision for that.  CHAIRMAN MORELOCK: Very good.
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	1	Page 177			Page 179
1.	MS. JEFFERSON: Great. And also, I	rage 1//	1.	recognition, but he does so much he does so	rage 179
2.	just wanted to		2.	much for the board. But not only this board, but	
3.	MR. BAUGHMAN: Please I was going		3.	he's also the legal counsel for our Prevailing	
4.	to say, even if passed, it probably would not go		4.	Wage Commission, as well as our Elevator and	
5.	into effect until July 1.		5.	Amusement Device Safety Board.	
6.	CHAIRMAN MORELOCK: Okay.		6.	So I just wanted to thank all of you	
7.	MS. JEFFERSON: Yes. That's correct.		7.	for what you do and also our participants in the	
8.	So		8.	audience. Just want to thank everybody for what	
9.	MR. PISCHKE: Yeah. I was going to		9.	they do. And I feel like we had a really	
10.	say, that's pretty soon.		10.	successful 2017, so I'm looking forward to 2018.	
11.	CHAIRMAN MORELOCK: Yeah.		11.	MR. PISCHKE: Thank you.	
12.	MS. JEFFERSON: Yes. I'm sorry.		12.	CHAIRMAN MORELOCK: Thank you. O	)kav
13.	Yes. The that's just the legislative process.		13.	We have one more item to discuss. It's a new item	nuy.
14.	MR. BAUGHMAN: Right.		14.	that we just added this morning during the approval	
15.	CHAIRMAN MORELOCK: Right.		15.	of the agenda. So Mr. Eskridge has a State Special	
16.	MS. JEFFERSON: Yes. Okay. And I		16.	proposal that he would like to just introduce as	
17.	just want to thank the board this year. I feel like		17.	discussion, and then he will provide all the work to	
18.	we've had a really good productive 2017. I just		18.	develop an item that will eventually become a voted	
19.	feel like it's getting better and better every year.		19.	item on a future Tennessee Board agenda. So	
20.	So I wanted to especially thank the board,		20.	gentlemen, you have the floor.	
21.	especially our new members, everyone that has		21.	MR. ESKRIDGE: All right,	
22.	stepped up to the plate, and you are so thorough.		22.	Mr. Chairman, members, thanks for granting us time	
23.	That's the one thing that I hear.		23.	to discuss the initial steps of the State Special.	
24.	You all take time to actually		24.	I'm Chip Eskridge. I'm a consultant	
25.	evaluate all the different every time a company		25.	for Dow Chemical in this process. With me is	
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		Page 178		]	Page 180
1.		Page 178	1.		Page 180
1. 2.	presents a variance, you all take the time to actually ask the questions. You actually help	Page 178	1. 2.	Brian Pauley, who's a project manager in Knoxville, Tennessee that owns this project, and	Page 180
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2.	presents a variance, you all take the time to actually ask the questions. You actually help	Page 178	2.	Brian Pauley, who's a project manager in Knoxville, Tennessee that owns this project, and	Page 180
2. 3.	presents a variance, you all take the time to actually ask the questions. You actually help them to get what they need so that they can have,	Page 178	2. 3.	Brian Pauley, who's a project manager in Knoxville, Tennessee that owns this project, and also Wes Byrd, with Charleston, West Virginia,	Page 180
2. 3. 4.	presents a variance, you all take the time to actually ask the questions. You actually help them to get what they need so that they can have, you know, their variance, and it's proper.	Page 178	2. 3. 4.	Brian Pauley, who's a project manager in Knoxville, Tennessee that owns this project, and also Wes Byrd, with Charleston, West Virginia, who's engineering support for Dow Chemical.	Page 180
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		Page 181		Page 183
1.	the reactor to stop the reaction (verbatim).	U	1.	components on this system.
2.	And the reaction's not that fast.		2.	Right now, they have a manual process
3.	It's a polymerization reaction, but it does take,		3.	of injecting this PTZ into the reactor if anything
4.	what I understand, you know, maybe several days		4.	occurred, again. So they have a way of more
5.	for it to get unmanageable.		5.	labor labor-intensive of charging a drum and
6.	But it's a way of, kind of, like		6.	pumping it in.
7.	throwing water on the fire. And that's what		7.	So you've got pumps and you've got
8.	this vessel that we're asking for a State Special		8.	electricity, so we feel like injecting it with
9.	is a vessel and it's a system, actually. It's		9.	compressed air. Actually, it's I was told,
10.	not just a vessel. It's a system that's on a cart		10.	actually it's not compressed air. It's 92 percent
11.	that's made by a German company that has this		11.	nitrogen, 8 percent oxygen, just to keep it on the
12.	technology this type of technology.		12.	lean side so you're not actually adding a
13.	And so the inhibitor is what's		13.	combustion air into a reactor (verbatim).
14.	referred to as PTZ, but it's again, it's just a		14.	So when I looked at the Tennessee
15.	chemical that actually can stop the reaction.		15.	requirements for State Special, I felt like this
16.	Dow has purchased several small ones		16.	fell into that where we're building something,
17.	under five cubic feet, that they will use in		17.	what we feel like is a we're purchasing
18.	for rail cars and other areas of the plant. But		18.	something equivalent to an ASME vessel. And
19.	at the reactor itself, they need a 500-liter		19.	familiar with maybe how other jurisdictions
20.	vessel, which is about 132 gallons.		20.	operate, we wanted to get here to get some
21.	The vessel itself contains the PTZ,		21.	guidance on what kind of documentation you would
22.	and it's injected into the reactor when they need		22.	like for us to submit within 45 days.
23.	to, you know, go to this sixth layer of		23.	We feel a drawing with calculation is
24.	protection, which is not foreseen, really, to need		24.	appropriate, but you know, we didn't know if there
25.	to go this deep. But it's injected we use		25.	was any more guidance like welding procedures,
			ı	
		Page 182		Page 184
1.	compressed air and nitrogen that are in bottles on	Page 182	1.	Page 184 MTRs, hydro-test reports, anything else that board
1. 2.	compressed air and nitrogen that are in bottles on the cart.	Page 182	1. 2.	-
1		Page 182	1	MTRs, hydro-test reports, anything else that board
2.	the cart.  The reason that we feel like a State Special is warranted is the company that's	Page 182	2.	MTRs, hydro-test reports, anything else that board members would want to see so that we could make a
2. 3.	the cart.  The reason that we feel like a State	Page 182	2. 3.	MTRs, hydro-test reports, anything else that board members would want to see so that we could make a more informative presentation in the March
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	Page 185		Page 187
1.	MR. PISCHKE: Div 1.	1.	MR. PISCHKE: RT2.
2.	MR. ESKRIDGE: Div 1.	2.	CHAIRMAN MORELOCK: So RT2, though,
3.	CHAIRMAN MORELOCK: Div 1, I'm sorry.	3.	you're going to do two spots every 50 feet, not just
4.	MR. PISCHKE: Not section. We don't	4.	one. The spot's going to be one every 50 feet on
5.	want	5.	the circs. But if you want to get that UW
6.	CHAIRMAN MORELOCK: But our rules say	6.	(a)(5)(b)
7.	that, as under the construction standards, that	7.	MR. ROBINSON: 52.
8.	pressure equipment in Tennessee shall be built to	8.	CHAIRMAN MORELOCK: to get you to
9.	ASME code. And so the Special will allow you	9.	RT2, you've got to take two spots on those circs.
10.	what you're approaching the board with. So if you	10.	So look at your
11.	show equivalency that this vessel is safe per ASME	11.	MR. ROBINSON: I can't remember if
12.	code calculations, that'll go a long way toward	12.	RT1 or I'm sorry, RT2 or RT3.
13.	getting it approved as a State Special.	13.	CHAIRMAN MORELOCK: Well, RT1 is full
14.	MR. ESKRIDGE: Yeah. And	14.	radiography
15.	CHAIRMAN MORELOCK: And so your MTRs,	15.	MR. ESKRIDGE: Correct.
16.	your thicknesses so we can take all that data,	16.	CHAIRMAN MORELOCK: and RT2 is
17.	compare that to what's in the calculations, make	17.	you're taking credit for a full radiography with the
18.	sure everything lines up; it'll be a better process	18.	additional spots on the circ seams. RT3 is spot,
19.	for you.	19.	and then RT4 is whatever.
20.	MR. ESKRIDGE: All right. Some	20.	MR. ESKRIDGE: Yeah.
21.	things I've done preliminarily: I've run the	21.	MR. ROBINSON: I know spot
22.	calculation. And the vessel's a quarter-inch thick.	22.	CHAIRMAN MORELOCK: It's the
23.	And Div 1 would require a .18.	23.	catch-all.
24.	CHAIRMAN MORELOCK: Okay.	24.	MR. ROBINSON: is under UW-52.
25.	MR. ESKRIDGE: So we meet the	25.	CHAIRMAN MORELOCK: Yeah. Yeah.
	Page 186		Page 188
1.	Page 186 thickness. They hydro'd it to 1.43. Section VIII	1.	Page 188 MR. ESKRIDGE: Yeah. And RT2,
1. 2.	-	1. 2.	-
1	thickness. They hydro'd it to 1.43. Section VIII		MR. ESKRIDGE: Yeah. And RT2,
2.	thickness. They hydro'd it to 1.43. Section VIII is 1.3.	2.	MR. ESKRIDGE: Yeah. And RT2, there's only one T-joint it's a 32-inch diameter
2. 3.	thickness. They hydro'd it to 1.43. Section VIII is 1.3.  CHAIRMAN MORELOCK: Correct.	2. 3.	MR. ESKRIDGE: Yeah. And RT2, there's only one T-joint it's a 32-inch diameter vessel. And so okay. So it looks like it's
2. 3. 4.	thickness. They hydro'd it to 1.43. Section VIII is 1.3.  CHAIRMAN MORELOCK: Correct.  MR. ESKRIDGE: And they did what	2. 3. 4.	MR. ESKRIDGE: Yeah. And RT2, there's only one T-joint it's a 32-inch diameter vessel. And so okay. So it looks like it's they're following the equivalency of RT2. And if I
2. 3. 4. 5.	thickness. They hydro'd it to 1.43. Section VIII is 1.3.  CHAIRMAN MORELOCK: Correct.  MR. ESKRIDGE: And they did what would be equivalent of RT2. They x-rayed	2. 3. 4. 5.	MR. ESKRIDGE: Yeah. And RT2, there's only one T-joint it's a 32-inch diameter vessel. And so okay. So it looks like it's they're following the equivalency of RT2. And if I don't have enough spots on the circ seams, then
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	Page 189		Page 191
1.	inches every 50 feet is what I heard.	1.	MR. ROBINSON: Right. I'm okay with
2.	So is there a checklist that we've	2.	it.
3.	searched the website for a Tennessee board	3.	CHAIRMAN MORELOCK: Yeah.
4.	checklist. Anything out	4.	MR. ROBINSON: I'm okay with it.
5.	CHAIRMAN MORELOCK: There's not a	5.	MR. ESKRIDGE: Yeah.
6.	checklist for a Special.	6.	CHAIRMAN MORELOCK: We've already
7.	MR. ESKRIDGE: Okay. All right. And	7.	dealt with that.
8.	it's I understand most other board jurisdictions	8.	MR. ROBINSON: I'm perfectly okay.
9.	require that a State Special be PE stamped.	9.	I'm just
10.	CHAIRMAN MORELOCK: We do not require	10.	CHAIRMAN MORELOCK: Yeah.
11.	that.	11.	MR. ESKRIDGE: Yeah.
12.	MR. ESKRIDGE: Okay.	12.	MR. ROBINSON: Not to make to it an
13.	MR. CHAPMAN: Yeah.	13.	issue going forward.
14.	MR. ROBINSON: Calculations you	14.	CHAIRMAN MORELOCK: Sure. Sure.
15.	just have to have the calculations	15.	MR. ROBINSON: Also, just be advised,
16.	CHAIRMAN MORELOCK: Right.	16.	on material standards for TUV, there are certain
17.	MR. ESKRIDGE: Okay.	17.	instances where the testing required by TUV or
18.	MR. ROBINSON: signed off on.	18.	Stoomwezen, that did inspect, is going to ask you
19.	MR. ESKRIDGE: That's fine. And	19.	for different test mechanical testing. Just make
20.	then	20.	sure that that testing does at least you could
21.	MR. BOWERS: Drawings and	21.	transfer it over to Section II. I'm forgive me,
22.	calculations.	22.	my mind just went blank.
23.	CHAIRMAN MORELOCK: Right.	23.	CHAIRMAN MORELOCK: Yeah. Yeah.
24.	MR. PISCHKE: And do they need to be	24.	Section II's materials.
25.	signed off by the	25.	MR. ROBINSON: Okay? And then
	Page 190		Page 192
1.	Page 190 MR. ROBINSON: Well	1.	Page 192 MR. ESKRIDGE: You mentioned the
1. 2.	MR. ROBINSON: Well	1. 2.	MR. ESKRIDGE: You mentioned the
1. 2. 3.	MR. ROBINSON: Well MR. PISCHKE: State PE?		MR. ESKRIDGE: You mentioned the tensile test, I think
2.	MR. ROBINSON: Well	2.	MR. ESKRIDGE: You mentioned the
2. 3.	MR. ROBINSON: Well MR. PISCHKE: State PE? MR. ROBINSON: They've got them electronic now and I don't know what the future	2. 3.	MR. ESKRIDGE: You mentioned the tensile test, I think MR. ROBINSON: Yes, sir.
2. 3. 4. 5.	MR. ROBINSON: Well MR. PISCHKE: State PE? MR. ROBINSON: They've got them electronic now and I don't know what the future says, but	2. 3. 4. 5.	MR. ESKRIDGE: You mentioned the tensile test, I think MR. ROBINSON: Yes, sir. MR. ESKRIDGE: on the CHAIRMAN MORELOCK: Yeah.
2. 3. 4.	MR. ROBINSON: Well MR. PISCHKE: State PE? MR. ROBINSON: They've got them electronic now and I don't know what the future says, but CHAIRMAN MORELOCK: Tennessee really	2. 3. 4.	MR. ESKRIDGE: You mentioned the tensile test, I think MR. ROBINSON: Yes, sir. MR. ESKRIDGE: on the CHAIRMAN MORELOCK: Yeah. MR. ROBINSON: On certain materials
2. 3. 4. 5. 6.	MR. ROBINSON: Well MR. PISCHKE: State PE? MR. ROBINSON: They've got them electronic now and I don't know what the future says, but	2. 3. 4. 5. 6.	MR. ESKRIDGE: You mentioned the tensile test, I think MR. ROBINSON: Yes, sir. MR. ESKRIDGE: on the CHAIRMAN MORELOCK: Yeah. MR. ROBINSON: On certain materials and not knowing what you're constructing it with,
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	Page 193		Page 195
1.	for a long time. They use it a lot in Europe	1.	stainless.
2.	instead of the L grades. They throw titanium in the	2.	MR. PISCHKE: Yeah.
3.	heat to stabilize it.	3.	CHAIRMAN MORELOCK: Yeah. So
4.	CHAIRMAN MORELOCK: You've got 316Ti	4.	they're
5.	in	5.	MR. ESKRIDGE: So there's no impact
6.	MR. ESKRIDGE: And we do have 316Ti	6.	test requirements. Yeah.
7.	in Section II.	7.	CHAIRMAN MORELOCK: Right. Right.
8.	MR. ROBINSON: Is it	8.	So there's
9.	MR. ESKRIDGE: But again, it's going	9.	MR. PISCHKE: But the European code
10.	to come from, you know, a plate material, like	10.	usually, or oftentimes, will mandate impact
11.	240	11.	testing
12.	CHAIRMAN MORELOCK: 240.	12.	MR. ESKRIDGE: Yeah.
13.	MR. ESKRIDGE: 304.	13.	MR. PISCHKE: that ASME would
14.	CHAIRMAN MORELOCK: Right.	14.	MR. ROBINSON: Would never.
15.	MR. ESKRIDGE: And but as Eugene	15.	MR. ESKRIDGE: Yeah.
16.	mentioned that, you know, they whether they do	16.	MR. PISCHKE: would never. So
17.	tensiles in the traverse direction or longitudinal,	17.	MR. ESKRIDGE: The PED requires that.
18.	it'd be on the MTRs, so I'll look for that.	18.	I don't know if it does it for stainless, but I know
19.	MR. ROBINSON: And yes. And	19.	for carbon steel, they require that.
20.	just yeah. Good. Perfect. Grain size I've	20.	Even though the German code might not
21.	seen differences, just so you know.	21.	do it, PED requires
22.	MR. ESKRIDGE: Yeah.	22.	MR. PISCHKE: Yeah. You raised a
23.	MR. ROBINSON: And I don't know what	23.	good point, and I don't want to complicate this any
24.	you're using, but just to let you know.	24.	more than we have to, about the welding procedures.
25.	MR. ESKRIDGE: Okay. Yeah.	25.	You know, their welding procedures are very close to
	Page 194	+	Page 196
1.	CHAIRMAN MORELOCK: Well, this will	1.	ours, to ASMEs. And over the past 10 years, we've
2.	be stainless vessel. So	2.	tried to harmonize them as much as possible, but
3.	MR. ESKRIDGE: It will, so yeah, I	3.	there may be some differences. Now, from a design
4.	don't think they'll be looking at grain size. But	4.	standpoint, it's not an issue.
5.	yeah, they the tensiles, I'll pay attention to	5.	And so I don't know if we want to
6.	that. Anything else that you think on the MTRs?	6.	make that an issue. You know. They tend to
7.	CHAIRMAN MORELOCK: So what's the	7.	the codes the European codes tend to emphasize
8.	maximum allowable temperature and a MDMT for this	8.	some slightly different things than we do, but
9.	material?	9.	they're just as safe, and you know, just as good
10.	MR. ESKRIDGE: The MAWP is 232 psig.	10.	as ours. It's just that they have a little
11.	CHAIRMAN MORELOCK: I know, but	11.	different approach
12.	what's the temperature? The maximum allowable	12.	MR. ESKRIDGE: Right.
13.	temperature?	13.	MR. PISCHKE: to it.
14.	MR. ESKRIDGE: 50 C, which is 121 F.	14.	MR. ESKRIDGE: Yeah. And so that's
15.	CHAIRMAN MORELOCK: Okay. So what's	15.	why it's equivalency, not identical that we would
16.	the minimum design level temperature?	16.	have to
17.	MR. PAULEY: Zero.	17.	CHAIRMAN MORELOCK: Right.
18.	CHAIRMAN MORELOCK: Zero?	18.	MR. PISCHKE: Exactly.
19.	MR. ESKRIDGE: Zero C?	19.	MR. ESKRIDGE: One thing I've noticed
20.	MR. PAULEY: Yes. Zero C.	20.	with even the Chinese code with the European is, you
21.	MR. ESKRIDGE: So 32 F.	21.	see and you mentioned it in a previous variance
22.	CHAIRMAN MORELOCK: Oh yeah,	22.	request nominal plate thickness, half-inch. And
23.	that's	23.	if you order a nominal plate, it can come in
24.	MR. PISCHKE: That's pretty high.	24.	ten-thousandths under .49 or thirty-thousandths
25.	MR. ESKRIDGE: Yeah. Especially for	25.	over, depending on the thickness.

	Page 197		Page 199
1.	ASME has a statement that says, if it	l <sub>1.</sub>	the drawings now, if you would like. We actually
2.	comes in that undertolerance, we'll still call it	2.	had a preliminary package.
3.	good. In Europe, they don't allow that	3.	CHAIRMAN MORELOCK: You can leave
4.	undertolerance.	4.	them with Sam.
5.	So they so where they might not	5.	MR. PISCHKE: I'm just going to ask a
6.	they might be more liberal in one area, like for	6.	question
7.	materials, if it comes in .495, it's rejected. It	7.	CHAIRMAN MORELOCK: One more question
8.	has to be five inches or greater.	8.	from Mr. Pischke.
9.	CHAIRMAN MORELOCK: Well, but you	9.	MR. PISCHKE: The pressure relief
10.	know why that is? Because their design margin is	10.	devices
11.	way lower than ours is.	11.	MR. ESKRIDGE: Oh yeah, right.
12.	MR. ESKRIDGE: Right. That's exactly	12.	Right.
13.	why. That's exactly why.	13.	MR. PISCHKE: Is that
14.	CHAIRMAN MORELOCK: So they can't	14.	MR. ESKRIDGE: We asked I asked
15.	play around with that undertolerance.	15.	about that with to Brian and they will put a
16.	MR. ESKRIDGE: And so ASME uses a	16.	National Board UV relief valve on there.
17.	higher design margin and allows a little bit more	17.	MR. PISCHKE: Okay.
18.	margin on, you know, welding procedures and tensile	18.	MR. PAULEY: All of our safety
19.	tests, even. We might not have exactly the same	19.	instruments are done through our engineering and
20.	tensile test, but they've certified it to 75,000	20.	design group
21.	tensile and 35,000 yield. So all right.	21.	MR. ESKRIDGE: Now, I
22.	CHAIRMAN MORELOCK: Okay. So	22.	MR. PAULEY: to make sure that
23.	yeah. I think if you'll do that, it'll be a good	23.	they
24.	review.	24.	MR. ESKRIDGE: I have something else
25.	MR. ESKRIDGE: So we'll have to	25.	that it helps out the inspectors that we would
	Page 198		Page 200
1.	submit it within 45 days. So our target is sometime	1.	always have a problem in Kentucky is the vessel will
2.	by the middle of January. Mail the board seven	2.	come stamped bar
3.	copies?	3.	MR. ROBINSON: Yes, sir.
4.	CHAIRMAN MORELOCK: Send it to the	4.	MR. ESKRIDGE: but the PSV's going
5.	State.	5.	to be PSI.
6.	MR. ESKRIDGE: Ten copies with	6.	MR. ROBINSON: Yes, sir.
7.	plotted drawings and	7.	MR. ESKRIDGE: So I would like to
8.	MR. BYRD: To Sam's attention?	8.	request to the manufacturer an informational tag or
9.	CHAIRMAN MORELOCK: Yeah. Send them	9.	something on there to put the PSI so that you can
10.	to Sam and then they'll get them sent to us.	10.	match that with the relief valve and you don't have
11.	MR. ESKRIDGE: Okay.	11.	to do the calculations in the field.
12.	MR. BYRD: Thank you.	12.	CHAIRMAN MORELOCK: Well, let me ask
13.	CHAIRMAN MORELOCK: All right.	13.	you a quick question. So when you put this into
14.	MR. ESKRIDGE: Anything else?	14.	service, will it have a DOW nameplate on it beside
15.	CHAIRMAN MORELOCK: Any other	15.	the manufacturer's nameplate?
16.	questions or concerns?	16.	MR. PAULEY: No.
17.	MR. BYRD: No.	17.	CHAIRMAN MORELOCK: Okay. Because
18. 19.	MR. PAULEY: No.	18. 19.	when we get a vessel in, it'll have the
20.	CHAIRMAN MORELOCK: All right. MR. PAULEY: Thanks for your time.	20.	manufacturer's and then we'll put our company nameplate on it, and that's where you could also
20.	MR. BYRD: Thank you.	20.	print the units.
22.	CHAIRMAN MORELOCK: It'll be	22.	MR. PAULEY: I mean, that's doable,
23.	interesting to see the drawings on that.	23.	and that makes a lot of sense. I mean, that way,
24.	(All talking at once.)	24.	you could convert everything over.
25.	MR. ESKRIDGE: We do have copies of	25.	CHAIRMAN MORELOCK: Right.
	and Estates of the do have copies of		Children and Children and Children
		<u> </u>	
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	Page 201			Page 203
1.	MR. PAULEY: So yeah.	1.	come to the board. We've built some really good	
2.	MR. ESKRIDGE: And Eugene these	2.	relationships through that process. I hope we've	
3.	are manufactured vessels, so this one hasn't been	3.	been useful to you all, as well, as serving you	
4.	built yet.	4.	to make sure that we keep pressure equipment safe	
5.	MR. ROBINSON: Yes, sir.	5.	in the state of Tennessee.	
6.	MR. ESKRIDGE: So we were able to	6.	I want to wish all of you all and	
7.	incorporate some features like that.	7.	your families a very merry Christmas and happy	
8.	CHAIRMAN MORELOCK: Well, so and	8.	New Year, and we are here to serve you. So thank	
9.	if it's not been built yet, then	9.	you for the opportunity. And we're adjourned.	
10.	MR. PISCHKE: I would request the	10.	END OF PROCEEDINGS.	
11.	dual	11.		
12.	CHAIRMAN MORELOCK: Yeah.	12.		
13.	MR. PISCHKE: dual nameplate.	13.		
14.	MR. ESKRIDGE: Well, and the	14.		
15.	problem it'd be a dual nameplate if the	15.		
16.	AD Merkblatter allows dual nameplates.	16.		
17.	CHAIRMAN MORELOCK: Right.	17.		
18.	MR. ESKRIDGE: You know, ASME code	18.		
19.	does, but if their German code allows a dual	19.		
20.	nameplate	20.		
21.	CHAIRMAN MORELOCK: I believe they	21.		
22.	do. We've I believe we've bought dual	22.		
23.	MR. PISCHKE: Yeah.	23.		
24.	MR. ESKRIDGE: Okay. We'll request	24.		
25.	that.	25.		
	Page 202	t		Page 204
1.	CHAIRMAN MORELOCK: Yeah. If you do	1.	CERTIFICATE	Ü
2.	that, then it's a moot point.	2.		
3.	MR. ESKRIDGE: Yeah.		STATE OF TENNESSEE )	
4.	MR. PAULEY: You know, we're	3.	COUNTY OF WILLIAMSON )	
5.	certainly not going to weld on it, so	4.	COUNT OF WILLIAMSON )	
6.	MR. ESKRIDGE: Yeah, yeah. It helps	5.		
7.	with, like I said, looking at MAWP and relief valve	Ι.	I D A D 1 . I CD II COC M .	
8.		6.	I, Dominique A. Dubois LCR# 686, Notary	
	to make sure it's they connect.	6. 7.	Public and Court Reporter, do hereby certify that I	
9.	to make sure it's they connect.  CHAIRMAN MORELOCK: All right.	7. 8.	Public and Court Reporter, do hereby certify that I have recorded to the best of my skill and ability	
9.	to make sure it's they connect.  CHAIRMAN MORELOCK: All right.  MR. ROBINSON: Very well.	7. 8. 9.	Public and Court Reporter, do hereby certify that I have recorded to the best of my skill and ability by machine shorthand all the proceedings in the	
	CHAIRMAN MORELOCK: All right. MR. ROBINSON: Very well.	7. 8. 9. 10.	Public and Court Reporter, do hereby certify that I have recorded to the best of my skill and ability by machine shorthand all the proceedings in the foregoing transcript, and that said transcript is a	
9. 10.	CHAIRMAN MORELOCK: All right.	7. 8. 9. 10.	Public and Court Reporter, do hereby certify that I have recorded to the best of my skill and ability by machine shorthand all the proceedings in the foregoing transcript, and that said transcript is a true, accurate, and complete transcript to the best	
9. 10. 11.	CHAIRMAN MORELOCK: All right. MR. ROBINSON: Very well. CHAIRMAN MORELOCK: Thank you very much.	7. 8. 9. 10.	Public and Court Reporter, do hereby certify that I have recorded to the best of my skill and ability by machine shorthand all the proceedings in the foregoing transcript, and that said transcript is a	
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